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Services



PHASE I ENVIRONMENTAL SITE ASSESSMENT

Michigan

Alabama

Florida

Illinois

Mississippi

New Jersey

North Carolina

Ohio

Tennessee

1210-1232 Morse Avenue and 620 East Harrison Avenue
Royal Oak, Michigan
PM Project Number 02-5771-5

Prepared for:

Harrison Lofts, LLC
2200 Genoa Business Park Drive, Suite 200
Brighton, Michigan 48114

Prepared by:

PM Environmental, Inc.
4080 West 11 Mile Road
Berkley, Michigan 48072

January 22, 2014

Mr. Kevin Wilson
Harrison Lofts LLC
2200 Genoa Business Park Drive, Suite 200
Brighton, Michigan 48114

**Re: Phase I Environmental Site Assessment of the Commercial Property
Located at 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan
PM Environmental, Inc. Project No. 02-5771-5**

Dear Mr. Wilson:

PM Environmental, Incorporated (PM) has completed the Phase I Environmental Site Assessment (ESA) of the above referenced property. This Phase I ESA was conducted in accordance with (1) the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries {(AAI), 40 CFR Part 312} and (2) guidelines established by the American Society for Testing and Materials (ASTM) in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process / Designation E 1527-13* (ASTM Standard Practice E 1527-13).

The Phase I ESA for the above referenced property represents the product of PM's professional expertise and judgment in the environmental consulting industry, and it is reasonable for **HARRISON LOFTS LLC AND OAKLAND COUNTY** to rely on PM's Phase I ESA report.

If you have any questions related to this report please do not hesitate to contact our office at (877) 313-2991.

Sincerely,
PM ENVIRONMENTAL, INC.



Bryant J. Hengst
Staff Consultant



Steven E. Price, CHMM
Principal and Vice President of Due Diligence

EXECUTIVE SUMMARY

PM Environmental, Inc., (PM) was retained to conduct a Phase I Environmental Site Assessment (ESA) of the Commercial Property located at 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Oakland County, Michigan (hereafter referred to as the "subject property"). This Phase I ESA was conducted in accordance with (1) the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries {(AAI), 40 CFR Part 312} and (2) guidelines established by the American Society for Testing and Materials (ASTM) in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process / Designation E 1527-13* (ASTM Standard Practice E 1527-13).

THIS REPORT WAS PREPARED FOR THE EXCLUSIVE USE OF HARRISON LOFTS LLC AND OAKLAND COUNTY, EACH OF WHOM MAY RELY ON THE REPORT'S CONTENTS.

Item	Comments
Number of Parcels and Acreage	Four parcels totaling approximately 4.6 acres
Number of Building(s) and Square Footage	A building containing 82,220 square feet
Current Property Use	The subject property is currently unoccupied and therefore there are no current business operations

Reasonably ascertainable records for the subject property extended back to approximately 1940. Data failure occurred prior to that date. Due to data failure, PM identified a significant data gap during the completion of this Phase I ESA. Refer to the significant data gap bullet below for additional information.

620 East Harrison Avenue
(eastern portion)

Standard and other historical sources were able to document that this portion of the subject property was initially developed with a residential dwelling and two commercial buildings (1113 Morse Avenue and 1209 Morse Avenue) between 1940 and 1949. The northern commercial building, identified as 1113 Morse Avenue, was demolished in the 1950s. The area of the former building was redeveloped and included the installation of five road oil ASTs. The central commercial building, identified as 1209 Morse Avenue, and road oil ASTs were demolished and/or removed by 1980. This portion of the subject property has contained asphalt-paved parking lots since at least 1980. The historical occupants of the former buildings are as follows:

- 1113 Morse Avenue: The occupants of the former building could not be determined through review of historical sources.
- 1209 Morse Avenue: Former occupants included a construction company between at least 1950 and 1955 and a machine shop between at least 1959 and 1962. The occupants between at least 1963 and 1968 could not be determined through review of historical sources; however, based on the layout of the building and the last documented use, the building was likely occupied by similar machine shop operations to the date of demolition.

1210-1232 Morse Avenue
(western portion)

Standard and other historical sources were able to document that this portion of the subject property was initially developed with a fuel oil distribution operation in the northern portion of the property by 1940. The operation included an office building, an outbuilding, and seven fuel oil ASTs, which were removed by 1974. The central portion of the property was utilized for exterior coal storage between at least 1950 and 1963. The property was redeveloped with the central portion of the current building (1220 Morse Avenue) constructed in the central portion of the property in 1962. Additions were constructed to the northern (1210 Morse Avenue) and southern (1232 Morse Avenue) portions of the building by 1968. The historical occupants of the current building are as follows:

- 1210 Morse Avenue (northern portion): This portion of the building was formerly occupied by a lumber distributor and custom woodworking company between at least 1995 and 2003. No exterior lumber storage was observed on the subject property through review of historical aerial photographs and Sanborn maps. According to review of historical municipal records, this portion of the building was formerly occupied by operations listed under 1220 Morse Avenue prior to 1995. This portion of the building is currently vacant of occupants and therefore there are no current business operations. Refer to the paragraph below for additional information.
- 1220 Morse Avenue (central portion): This portion of the building was formerly occupied by a foam manufacturer between at least 1964 and 1980 and a plastic injection molding company in at least 1989. This portion of the building has been occupied by numerous distribution/warehouse operations since at least 1989.
- 1232 Morse Avenue (southern portion): This portion of the building was formerly occupied by various manufacturing operations between at least 1982 and 1990 and various warehouse/distribution operations between at least 1995 and 2006. According to review of historical municipal records, this portion of the building was formerly occupied by operations listed under 1220 Morse Avenue prior to 1982. This portion of the building is currently vacant of occupants and therefore there are no current business operations. Refer to the paragraph above for additional information.

The following table summarizes the conditions identified as part of this assessment. Affirmative answers are further discussed below the table:

Type of Condition	Identified During the Course of this Assessment
De Minimis Condition	No
Significant Data Gap	Yes
Historical Recognized Environmental Condition (HREC)	No
Controlled Recognized Environmental Condition (CREC)	No
Recognized Environmental Condition (REC)	Yes

Significant Data Gap

A data gap, as defined in the ASTM Standard, is a lack of or inability to obtain information required by the ASTM Standard despite good faith efforts by the environmental professional to gather such information. The environmental professional must then determine whether these gaps are significant. The following significant data gap was identified during completion of this Phase I ESA:

- PM was unable to confirm the operations on the subject property prior to 1940. The unknown operations are identified as a significant data gap that hinders PM's ability to identify RECs in association with the former operations prior to 1940.

Recognized Environmental Condition

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the Commercial Property located at 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Oakland County, Michigan, the property. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of recognized environmental conditions connected with the property except the following:

- The subject property was formerly utilized for various commercial and/or industrial uses, including exterior coal storage, bulk fuel oil and/or road oil distribution operations, various manufacturing operations, and/or various machine shop operations between at least 1940 and 1990. Based upon review of the previous subsurface investigations, soil and groundwater contamination is present which exceeds the current Part 201 Residential and Nonresidential Generic Cleanup Criteria. Based on these analytical results, the subject property would be classified as a "facility," as defined by Part 201 of P.A. 451 of the Michigan Natural Resources Environmental Protection Act (NREPA), as amended.

No adjoining and/or nearby RECs have been identified.

Non-ASTM Scope Considerations and Business Environmental Risks (BERS)

In addition, PM has identified the following non-ASTM Scope considerations and/or BERS:

- Based upon PM's limited visual observations during the site reconnaissance, suspect asbestos containing building materials (ACBMs) included vinyl floor tiles, drywall walls, and acoustical ceiling tiles. The materials appeared to be in fair to poor condition. PM previously completed a pre-renovation ACBM survey in 2013, which documented that ACBMs are present and will require removal by a licensed abatement contractor based upon condition or if it is to be disturbed as part of renovation activities.
- Based upon PM's limited visual observations during the site reconnaissance, no chipping or peeling paint was observed on the walls and ceilings in the building. PM previously completed a pre-renovation lead based paint (LBP) survey in 2013, which documented that varying concentrations of LBP was present in the building. PM recommends that engineering controls be implemented for renovation work on identified lead containing painted surfaces that may be cut with a torch, welded, sawed, or

otherwise cut. In addition, enclosures and high efficiency particulate air (HEPA) vacuums may be utilized to limit potential exposure to lead during selective demolition of lead paint coated building components.

- Based upon PM's limited visual observations during the site reconnaissance, water damage was observed on numerous ceiling tiles and drywall in the building. PM recommends that the source of moisture intrusion be properly repaired as part of ongoing building maintenance. PM can provide a proposal to complete a mold survey at the request of the client.

Recommendations

These RECs have been brought to the attention of the client within the requirements of the ASTM Standard Designation E-1527-13. Parts 201 and 213 of the 1994 Michigan Natural Resources Environmental Protection Act (NREPA) provide liability protection for off-site migration of contamination to the subject property.

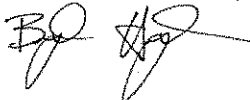
Additional site assessment activities which include the preparation of a BEA have been completed concurrently with this report. The additional information will be provided to the client under separate cover.

The summary presented above is general in nature and should not be considered apart from the entire text of the report, which contains the qualifications, considerations and subject property details mentioned herein. Details of findings and conclusions are elaborated upon in this report.

This report has been reviewed for its completeness and accuracy. Please feel free to contact our office at (877) 313-2991 to discuss this report.

REPORT PREPARED BY:

PM Environmental, Inc.



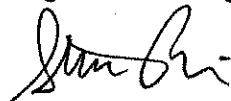
Bryant J. Hengst
Staff Consultant

REPORT REVIEWED BY:

PM Environmental, Inc.



Shawn Shadley
Regional Due Diligence Manager



Steven E. Price, CHMM
Principal and Vice President of Due Diligence

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FIGURES

Figure 1: Site Location Map

Figure 2: Generalized Diagram of the Subject Property and Surrounding Area

APPENDICES

Appendix A: Property Photographs from Site Reconnaissance

Appendix B: Correspondence and Supporting Documentation

Appendix C: Previous Site Investigations

Appendix D: Regulatory Database and File Review Correspondence

Appendix E: Professional Resumes

Appendix F: Acronyms and Terminology, Scope of Work, ASTM Reference Document,
and User's Continuing Obligations under CERCLA

1.0 INTRODUCTION

This Phase I ESA was conducted in accordance with (1) the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries {(AAI), 40 CFR Part 312} and (2) guidelines established by the American Society for Testing and Materials (ASTM) in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process / Designation E 1527-13* (ASTM Standard Practice E 1527-13).

THIS REPORT WAS PREPARED FOR THE EXCLUSIVE USE OF HARRISON LOFTS LLC AND OAKLAND COUNTY, EACH OF WHOM MAY RELY ON THE REPORT'S CONTENTS.

PM acknowledges that these parties may rely on the contents and conclusions presented in this report. Unless stated otherwise in writing, PM makes no other warranty, representation, or extension of reliance upon the findings of this report to any other entity or third party.

1.1: Property Overview

Subject Property Location/Address	1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Oakland County, Michigan
Number of Parcels and Acreage	Four parcels totaling approximately 4.6 acres
Number of Building(s) and Square Footage	A building containing 82,220 square feet
Current Property Use	The subject property is currently unoccupied and therefore there are no current business operations
Current Zoning	Mixed Use – Residential/Office/Institutional

The subject property location is depicted on Figure 1, Site Location Map. A diagram of the subject property and adjoining properties is included as Figure 2, Generalized Diagram of the Subject Property and Surrounding Area. Photographs taken during the site reconnaissance are included in Appendix A.

1.2: Purpose and Scope of Services

The purpose of this Phase I ESA was to evaluate the current and historical conditions of the subject property in an effort to identify *recognized environmental conditions* (RECs), *controlled recognized environmental conditions* (CRECs), and *historical recognized environmental conditions* (HRECs) in connection with the subject property. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs and HRECs in connection with the subject property.

Acronyms and terms used in this report are described in Appendix F. Additionally, PM's scope of services is included in Appendix F.

1.3: Significant Assumptions

Pursuant to ASTM Standard Practice E 1527-13, PM assumes that the information provided by all sources and parties, including the User, is accurate and complete, except where obvious inconsistencies or inaccuracies were identified.

1.4: Limitations, Deviations, and Special Terms and Conditions

There are no deviations from the ASTM Standard. Non-ASTM Scope considerations are included in Section 11.0. Any physical limitations identified during the completion of this report are referenced in Section 7.0.

Due to changing environmental regulatory conditions and potential on-site or adjacent activities occurring after this assessment, the client may not presume the continuing applicability to the subject property of the conclusions in this assessment for more than 180 days after the report's issuance date, per ASTM Standard Practice E 1527-13.

To the best of PM's knowledge, no special terms or conditions apply to the preparation of this Phase I ESA that would deviate the scope of work from the ASTM Standard Practice E 1527-13.

PM was not provided with a copy of the recorded land title records for subject property by the client and was not requested to complete a title search. Therefore, PM cannot comment on any potential relevant information that may have been obtained through review of these records.

2.0 USER PROVIDED INFORMATION

The ASTM Standard defines a User as "the party seeking to use Practice E 1527 to complete an environmental site assessment. A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager." The User has specific obligations for completing a successful application of this practice as outlined in Section 6 of the ASTM Standard Practice E 1527-13.

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfield's Revitalization Act of 2001 (the "Brownfield's Amendments") (if desired), the User must provide certain information (if available) identified in the User Questionnaire to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

The following responses were provided by the User. A copy of the completed User Questionnaire is included in Appendix B.

Question	Response
Name of Preparer and User Entity	Mr. Kevin Wilson; Harrison Lofts LLC
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?	No
Are you aware of any Activity and Use Limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?	No

Question	Response
As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	No
Does the purchase price being paid for this property reasonably reflect the fair market value of the property?	No
If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	Yes
Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user:	
Do you know the past uses of the property?	No
Do you know of specific chemicals that are present or once were present at the property?	No
Do you know of spills or other chemical releases that have taken place at the property?	No
Do you know of any environmental cleanups that have taken place at the property?	No
As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?	No

2.1: Recorded Land Title Records

PM was not provided with land title records for the subject property by the User and was not requested to complete a chain of title for the subject property. PM reviewed reasonably ascertainable environmental liens and activity and use limitation documents, which are further discussed in Section 4.10. Based upon the information reviewed as part of this Phase I ESA, PM has not identified the lack of provided land title records as a data failure that represents a significant data gap.

2.2: Reason for Performing this Phase I ESA

According to the User, this Phase I ESA was conducted as part of environmental due diligence related to purchasing the subject property.

3.0 PHYSICAL SETTING

PHYSICAL SETTING INFORMATION FOR THE SUBJECT PROPERTY AND SURROUNDING AREA		SOURCE
Topography: Refer to Figure 1 for an excerpt of the Topographic Map		
Site Elevation	640-650 feet	United States Geological Survey Division (U.S.G.S.) 7.5-Minute Topographic Map of the Royal Oak, Michigan Quadrangle, 1996
Topographic Gradient	East	
Closest Surface Water	Red Run Creek, located approximately 2.25 miles northeast of the subject property	
General Soil Characteristics: Refer to Appendix B for a copy of the soil survey map and soil type descriptions		
Soil Type	Urban land-Thetford complex, 0 to 3 percent slopes	United States Department of Agriculture, Custom Soil Resource Report for Oakland County, Michigan (survey area data from September 27, 2012)
Description	Urban land comprises 60 percent of the soil composition. These areas are covered with airports, shopping centers, parking lots, large buildings, streets, or sidewalks. Thetford complex and other soils comprises 40 percent of the soil composition. These soils consists of loamy fine sand to a depth of 20 inches bgs, loamy sand to 45 inches bgs, underlain by sand to 60 inches bgs. This soils permeability is high. The corrosivity for steel is low, but moderate for concrete.	
Soil Type	Udorthents and Udipsammments, nearly level to hilly	
Description	Consists of silt loam to a depth of 8 inches bgs, underlain by clay loam to 80 inches bgs. This soils permeability is very low to low. The corrosivity for steel and concrete is low and/or moderate.	
Area Specific Geology/Hydrogeology Characteristics:		
Geology	Consists of sand to a depth of 8.0 feet bgs, underlain by clay to 10.0 feet bgs, the maximum depth explored.	Previous site investigations for the subject property
Hydrogeology	Groundwater was encountered between 5.0 and 8.0 feet bgs with no documented flow direction.	
Oil and Gas Wells:		
Current Oil and Gas Wells on Subject Property	None identified	MDEQ Geologic Survey Division (GSD) web site
Historical Oil and Gas Wells On Subject property	None identified	

4.0 RECORDS REVIEW

PM reviewed reasonably ascertainable records to identify obvious uses of the subject property from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. Reasonably ascertainable records reviewed as part of this Phase I ESA documented the use of the property back to 1940. Data failure occurred prior to that date. PM has identified this data failure as a significant data gap. Refer to Sections 6.0 and 11.1 for additional information.

4.1: Aerial Photographs and Sanborn Maps

PM reviewed reasonably ascertainable aerial photographs for the subject property area. The sources and years reviewed are identified in the table below. Relevant aerial photographs are included in Appendix B.

PM reviewed reasonably ascertainable Sanborn Fire Insurance Maps for the subject property area, which were obtained from EDR. The sources and years reviewed are identified in the table below. Relevant Sanborn Maps are included in Appendix B.

The following table summarizes the sources reviewed and the information obtained about the subject property from these sources. Information obtained about the adjoining properties from these sources is summarized in Section 8.0.

Aerial and Sanborn Summary for 1210-1232 Morse Avenue

Year and Source	Summary of Information
1931 Sanborn Map (EDR)	The majority of the subject property is not depicted in this Sanborn map; however, no structures or buildings are present in the limited northern portion of the property that is visible in this Sanborn map.
1940 Aerial (MSU)	The northeastern portion of the property appears to be developed; however, due to the scale and resolution, more definitive details could not be determined.
1949 Aerial (WSU)	Contains two buildings in the northeastern portion of the property, which appears to be associated with seven ASTs located directly to the south of the buildings. The remaining portions of the property contain undeveloped land based on the lack of visible crop rows.
1950 Sanborn Map (EDR)	The northeastern most building is identified as an "office building". An outbuilding, a pump house, and seven fuel oil ASTs are located directly to the south of the office building. A coal shed is located in the central-eastern portion of the property, which is associated with an exterior coal yard that is located in the central portion.
1952 Aerial (WSU)	Four fuel oil ASTs have been removed. Four additional fuel oil ASTs have been installed to the west of the existing ASTs. The remaining portions of the property appear similar to the previous Sanborn year.
1953 Sanborn Map (EDR)	The coal yard is no longer present. The remaining portions of the property appear similar to the previous aerial year.
1957 Aerial (WSU)	The coal yard is present in the central portion of the property. The remaining portions of the property appear similar to the previous Sanborn year.
1961 Aerial (MSU)	Similar to the previous aerial year.
1963 Aerial (Oakland Co.)	The coal yard is no longer present. The central portion (1220 Morse Avenue) of the current building has been constructed in the central portion of the property. The remaining portions of the property appear similar to the previous aerial year.

Phase I ESA of the Commercial Property
Located at 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Michigan
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Year and Source	Summary of Information
1967 Aerial (MSU)	The southern portion (1232 Morse Avenue) of the current building has been constructed in the southern portion of the property. The remaining portions of the property appear similar to the previous aerial year.
1968 Sanborn Map (EDR)	The two original buildings and associated ASTs have been removed. The northern portion (1210 Morse Avenue) of the current building has been constructed in the northern portion of the property and is identified as a "factory". This layout is similar to the current layout.
1974 Aerial (Oakland Co.)	Similar to the previous Sanborn year.
1980 Aerial (Oakland Co.)	Similar to the previous aerial year.
1990 Aerial (Oakland Co.)	Similar to the previous aerial year.
1997 Aerial (Oakland Co.)	Similar to the previous aerial year.
2000 Aerial (Oakland Co.)	Similar to the previous aerial year.
2005 Aerial (Oakland Co.)	Similar to the previous aerial year.
2010 Aerial (Oakland Co.)	Similar to the previous aerial year.

Aerial and Sanborn Summary for 620 East Harrison Avenue

Year and Source	Summary of Information
1931 Sanborn Map (EDR)	The subject property is not depicted in this Sanborn map.
1940 Aerial (MSU)	Contains undeveloped land based on the lack of visible crop rows.
1949 Aerial (WSU)	Contains a residential dwelling and commercial building (1113 Morse Avenue) in the northern portion of the property. Another commercial building (1209 Morse Avenue) is located in the central portion of the property. The remaining portions of the property appear similar to the previous aerial year.
1950 Sanborn Map (EDR)	The commercial building (1209 Morse Avenue) in the central portion of the property is identified as a "contractor warehouse and shop". The remaining portions of the property appear similar to the previous aerial year.
1952 Aerial (WSU)	The commercial building (1113 Morse Avenue) in the northern portion of the property has been demolished. Five road oil ASTs are present in the northern portion of the property. The remaining portions of the property appear similar to the previous Sanborn year.
1953 Sanborn Map (EDR)	Similar to the previous aerial year.
1957 Aerial (WSU)	Similar to the previous aerial and Sanborn years.
1961 Aerial (MSU)	Similar to the previous aerial and Sanborn years.
1963 Aerial (Oakland Co.)	Similar to the previous aerial and Sanborn years.
1967 Aerial (MSU)	Due to scale and resolution, definitive details could not be determined.

*Phase I ESA of the Commercial Property
Located at 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Michigan
PM Project No. 02-5771-5; January 22, 2014*

Year and Source	Summary of Information
1968 Sanborn Map (EDR)	Similar to the previous aerial years.
1974 Aerial (Oakland Co.)	The road oil ASTs and the majority of the building in the central portion of the property have been demolished. The northern portion of the property is vacant and the southern portion is a surface parking lot.
1980 Aerial (Oakland Co.)	The remaining portions of the building in the central portion of the property have been demolished. The property contains asphalt-paved parking. This layout is similar to the current layout.
1990 Aerial (Oakland Co.)	Similar to the previous aerial year.
1997 Aerial (Oakland Co.)	Similar to the previous aerial year.
2000 Aerial (Oakland Co.)	Similar to the previous aerial year.
2005 Aerial (Oakland Co.)	Similar to the previous aerial year.
2010 Aerial (Oakland Co.)	Similar to the previous aerial year.

A summary of this information along with other historical sources is included in Section 6.0

4.2: Local Street Directories

Reasonably ascertainable local street directories for Royal Oak, Michigan were researched. Directories were available from 1945 to 2012. Directories were researched in at least five-year increments, when available. It should not be construed that the earliest date represented is the initial date of occupancy.

PM also reviewed listings for adjoining commercial properties. Information from the listings reviewed is included in Section 8.0.

Subject Property: 1210 Morse Avenue

2012-2009	Not Listed
2006-2005	No Phone Listed
2003-2002	ERB Lumber
2000-1999	ERB Lumber
	Eton Architectural Millwork
1996-1995	Eton Architectural Millwork
1993-1945	Not Listed

Subject Property: 1220 Morse Avenue

2012-2011	Grafico Industries
2009-2005	Kirtland Associates Inc. Program Administration Source One Distributions Services Inc.
2003-2002	Source One Services Inc.
2000-1999	ADS Inc.

1996-1995	Source One Svc Inc. Advance Part Design Casa Art Services Kirtland Associates Inc. Source One Services Inc.
1993-1992	Casa Art Services Kirtland Assoc Inc. Source 1 Distributions
1990-1989	Bell Plastics PRN Services Inc.
1987-1986	Colony Press Inc. PRN Services Inc.
1983-1982	Stationers Wholesale
1980-1964	Foamade Industries
1962-1945	Not Listed

Subject Property: 1232 Morse Avenue

2012-2009	Not Listed
2006-1999	CDC Undercar LLC Canusa Distribution Center Inc.
1996-1995	CDC Distribution Center Clinton Distribution Center
1993-1992	Not Listed
1990-1986	Formation Industries
1983-1982	D&W Construction Jaimes Industries
1980-1945	Not Listed

Subject Property: 620 East Harrison Avenue

2012-2011	Not Listed
2007	Total Court Services
2004-1992	A-W Systems Co.
1989-1976	Not Listed

A summary of this information along with other historical sources is included in Section 6.0

4.3: Assessing Department

Reasonably ascertainable assessment information provided by the City of Royal Oak Assessing Department was obtained and reviewed. Assessing records document that the subject property consists of four parcels containing 4.6 acres and is developed with a single-story building containing 82,220 square feet that was reportedly initially constructed in 1962. However, review of historical aerial photographs indicates that the northern and southern portions of the building were constructed by 1968. Copies of available assessment records for the subject property and the current legal description are included in Appendix B.

4.4: Building Department

Reasonably ascertainable assessment information provided by the City of Royal Oak Building Department was obtained and reviewed. According to building department files, the northern portion of the current building (1210 Morse Avenue) was occupied by Foammade Industries (a foam manufacturer) between 1960 and 1980, PRN Corporation (a brochure packaging and printing company) between 1980 and 1991, and ERB Lumber in 1994. Building department files indicate that Foammade Industries occupied the entire building during their operation. PM's review did not identify potential environmental concerns associated with the subject property. No relevant information was included within the records reviewed.

4.5: Fire Department

PM submitted a Freedom of Information Act (FOIA) request to the Royal Oak Fire Department to review Fire Department records for the subject property. PM did not receive a response within the time constraints of this report. If PM does receive a response, and it changes the findings of the report, the client will be notified. However, PM previously reviewed Fire Department records in September 2012, which documented that several property inspections were conducted between 1979 and 1978 with minor code violations noted. Additionally, fire department records documented that a spray booth was previously utilized in the subject building by Formation Industries in at least 1987. The spray booth is not currently located within the subject building. Previous site assessment activities have assessed the former operations associated with the subject building. Refer to Section 4.9 for additional information.

4.6: Health Department

PM submitted a FOIA request to the Oakland County Health Department to review records for the subject property. PM received a written response from a representative of the department indicating no files were available for the subject property.

4.7: Utilities

4.7.1: Municipal Water/Water Wells

The subject property is currently connected to municipal water. PM interviewed a representative of the Royal Oak Water Billing Department, who indicated the subject property was initially connected to municipal water in 1962, which is consistent with the initial construction of the current building. Review of Sanborn maps indicates municipal water has been available to the subject property since at least 1931. Based upon this information, the former buildings were most likely tapped to municipal water during initial construction. No records of private water wells have been identified through review of reasonably ascertainable information.

4.7.2: Sanitary Sewer/Septic System

The subject property is currently connected to municipal sewer. According to a representative of the Royal Oak Water Billing Department, no tap records were available for the subject property. The representative indicated that municipal sewer has likely been available for as long as municipal water. Review of Sanborn maps indicates municipal water has been available to the subject property since at least 1931. Based upon this information, the former buildings

and current building were most likely tapped to municipal sewer during construction. No records of private septic fields have been identified through review of reasonably ascertainable information.

4.7.3: Heat Source

The subject property is connected to natural gas, which is supplied by Consumers Energy. Review of the Consumers Energy SIMS website indicates the subject property was initially connected to natural gas in 1962, which is consistent with the initial construction of the current building. No alternative heat sources have been identified through review of reasonably ascertainable information.

PM was unable to determine the heat source for the former buildings on the eastern portion of the subject property (620 East Harrison Avenue) from at least 1949 until 1980. No documentation of fuel oil use was identified during review of reasonably ascertainable records, and no visual evidence of fuel oil use was identified during the site reconnaissance. There is the potential for a fuel oil AST or UST to have been used at the property and for a release to have occurred. However, based upon PM's experience, the risk of a release associated with a potential fuel oil UST is low. If a fuel oil UST is discovered in the future and/or evidence of a release of historical fuel oil is identified, further evaluation may be necessary.

PM was also unable to determine the heat source for the former buildings associated with the western portion of the subject property (1210-1232 Morse Avenue) from at least 1940 until 1961. It is PM's professional opinion that based upon the known former on-site fuel oil distribution and coal yard operations, these former buildings were likely heated with coal and/or fuel oil from the associated on-site ASTs. Previous site assessment activities previously identified the long-term fuel oil use as a concern. Refer to Section 4.9 for additional information.

4.8: Underground Storage Tank (UST) Systems

Review of reasonably ascertainable standard and other historical sources, and site observations, have not identified the current and historical presence of USTs on the subject property. Specifically, no records of USTs were identified through review of reasonably ascertainable records and PM did not observe any evidence of USTs (i.e. fill ports, vent pipes, etc.) during the site reconnaissance.

4.9: Previous Environmental Reports

PM reviewed the following previous environmental reports for the subject property. Relevant portions of the reports are included in Appendix C.

Name of Report	Date of Report	Company that Prepared Report
Phase I ESA	10-6-2012	PM
Phase II ESA	11-19-2012	PM
Facility Delineation Report	1-6-2014	PM

4.9.1: Summary of Previous Environmental Reports

PM previously completed a Phase I ESA for the subject property dated September 6, 2012. At the time of the previous Phase I ESA, the central portion of the building (1220 Morse Avenue) was occupied by a mail sorting and packing operation that used limited amounts of ink and toner for small-scale printing. The northern (1210 Morse Avenue) and southern portions (1232 Morse Avenue) of the building were unoccupied and therefore there were no business operations present.

The previous Phase I ESA documented similar historical occupant information as included in this Phase I ESA. Several on-site RECs were identified in previous Phase I ESA, which included the following: (1) the current building was occupied by a foam manufacturer between at least 1964 and 1980; (2) a former building in the eastern portion of the property contained a machine shop between at least 1959 and 1962, and potentially to 1974; (3) the property formerly contained 11 fuel oil ASTs in the northwestern portion of the property; (4) the property formerly contained five road oil ASTs in the northeastern portion of the property; and (5) the western-central portion of the property was formerly utilized for exterior coal storage between at least 1950 and 1961. The following off-site RECs were identified: (1) the southeast adjoining property, identified as 1300 Batavia Avenue, was previously occupied by various manufacturing operations and/or machine shops between at least 1945 and 2001; (2) the south adjoining property, identified as 622 MacWilliams Lane, was previously occupied by a building contractor warehouse and supply yard between at least 1940 and 1980; and (3) the west adjoining property previously contained railroad spurs prior to 1931, which were removed by 2005. Exterior storage of unknown materials was also observed in the northern portion of the west adjoining property between at least 1974 and 2000.

Subsequently, a Phase II ESA and a Facility Delineation Report were completed to assess these RECs and are discussed in further detail in the table below.

Summary of historical information in reports:	The summary of the historical information, which is similar historical occupant information as included in this Phase I ESA, is referenced in Section 6.0. The Phase II ESA and Facility Delineation Report are discussed in further detail below.
Is the subject property listed under a regulatory listing?	Yes. The subject property is identified as a RCRA-NonGen site.
Is soil contamination present above an applicable regulatory level?	Yes; Soil contamination [i.e. Volatile Organic Compounds (VOCs), Polychlorinated biphenyl (PCBs), and metals] was identified above the current MDEQ Part 201 Generic Residential Cleanup Criteria (GRCC) and Generic Non-Residential Cleanup Criteria (GNCC). Polynuclear Aromatic Compounds (PNAs) were also identified above the current MDEQ Part 201 GRCC.
Is soil contamination delineated in all directions?	Yes
Is groundwater contamination present above an applicable regulatory level?	Yes; Groundwater contamination (i.e. VOCs, PNAs, and PCBs) was identified above the current MDEQ Part 201 GRCC and/or GNCC.
Is groundwater contamination delineated in all directions?	Yes
Significant deficiencies identified?	No

Additional information:	During the subsurface investigation activities referenced above, PM advanced 91 soil borings and collected soil and groundwater samples to address the previously identified on-site and off-site RECs. Soil and/or groundwater contamination above the current MDEQ Part 201 GRCC was identified in the areas of the previously identified on-site RECs. The contamination identified on-site was not attributed to off-site migration.
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The subject property was formerly utilized for various commercial and/or industrial uses, including exterior coal storage, bulk fuel oil and/or road oil distribution operations, various manufacturing operations, and/or various machine shop operations between at least 1940 and 1990. Based upon review of the previous subsurface investigations, soil and groundwater contamination is present which exceeds the current Part 201 Residential and Nonresidential Generic Cleanup Criteria. Based on these analytical results, the subject property would be classified as a "facility," as defined by Part 201 of P.A. 451 of the Michigan Natural Resources Environmental Protection Act (NREPA), as amended. **The known contamination on the subject property represents a REC.**

4.10: Environmental Liens, Activity and Use Limitations, and Government Institutional and Engineering Controls

PM has not identified any record of environmental liens, activity and use limitations, or institutional controls or engineering controls associated with the subject property through review of reasonable ascertainable records.

5.0 INTERVIEWS

The objective of completing interviews with knowledgeable site contacts is to obtain information about the uses and physical characteristics of the property. In general, interviewees supported the information reviewed from other historical sources (i.e. aerial photos, city records, etc.).

Represents	Interviewed	Name and Title	Length of Time Associated with Subject Property	Comments
Current Property Owner	No	Not applicable	Not applicable	The current owner did not make themselves available for interview within the time constraints of this report. Based on information obtained through review of historical sources, PM has not identified the lack of an owner interview as a significant data gap.
Former Property Owner	No	Not applicable	Not applicable	Contact information for the former owner was not reasonably ascertainable or provided by the User.
Key Site Manager	No	Not applicable	Not applicable	See above.

Represents	Interviewed	Name and Title	Length of Time Associated with Subject Property	Comments
Current Occupant(s)	No	Not applicable	Not applicable	The subject property is currently unoccupied and therefore there are no current business operations.
Former Occupant(s)	No	Not applicable	Not applicable	Contact information for the former occupants was not reasonably ascertainable or provided by the User.
Other(s)	No	Not applicable	Not applicable	No other relevant interviews were conducted as part of this Phase I ESA.

6.0 SUMMARY OF HISTORICAL USE

620 East Harrison Avenue (eastern portion)

Standard and other historical sources were able to document that this portion of the subject property was initially developed with a residential dwelling and two commercial buildings (1113 Morse Avenue and 1209 Morse Avenue) between 1940 and 1949. The northern commercial building, identified as 1113 Morse Avenue, was demolished in the 1950s. The area of the former building was redeveloped and included the installation of five road oil ASTs. The central commercial building, identified as 1209 Morse Avenue, and road oil ASTs were demolished and/or removed by 1980. This portion of the subject property has contained asphalt-paved parking lots since at least 1980. The historical occupants of the former buildings are as follows:

- 1113 Morse Avenue: The occupants of the former building could not be determined through review of historical sources; however, based on the short-term operations, PM has not identified the short-term unknown operations as a REC.
- 1209 Morse Avenue: Former occupants included a construction company between at least 1950 and 1955 and a machine shop between at least 1959 and 1962. The occupants between at least 1963 and 1968 could not be determined through review of historical sources; however, based on the layout of the building and the last documented use, the building was likely occupied by similar machine shop operations to the date of demolition. Previous site assessment activities have assessed the former machine shop operations. Refer to Section 4.9 for additional information.

1210-1232 Morse Avenue (western portion)

Standard and other historical sources were able to document that this portion of the subject property was initially developed with a fuel oil distribution operation in the northern portion of the property by 1940. The operation included an office building, an outbuilding, and seven fuel oil ASTs, which were removed by 1974. The central portion of the property was utilized for exterior coal storage between at least 1950 and 1963. The property was redeveloped with the central portion of the current building (1220 Morse Avenue) was constructed in the central portion of the property in 1962. Additions were constructed to the northern (1210 Morse Avenue) and

southern (1232 Morse Avenue) portions of the building by 1968. The historical occupants of the current building are as follows:

- 1210 Morse Avenue (northern portion): This portion of the building was formerly occupied by a lumber distributor and custom woodworking company between at least 1995 and 2003. No exterior lumber storage was observed on the subject property through review of historical aerial photographs and Sanborn maps. According to review of historical municipal records, this portion of the building was formerly occupied by operations listed under 1220 Morse Avenue prior to 1995. This portion of the building is currently vacant of occupant and therefore there are no current business operations. Refer to the paragraph below for additional information.
- 1220 Morse Avenue (central portion): This portion of the building was formerly occupied by a foam manufacturer between at least 1964 and 1980 and a plastic injection molding company in at least 1989. This portion of the building has been occupied by numerous distribution/warehouse operations since at least 1989. Previous site assessment activities have assessed the former manufacturing operations. Refer to Section 4.9 for additional information.
- 1232 Morse Avenue (southern portion): This portion of the building was formerly occupied by various manufacturing operations between at least 1982 and 1990, and various warehouse/distribution operations between at least 1995 and 2006. According to review of historical municipal records, this portion of the building was formerly occupied by operations listed under 1220 Morse Avenue prior to 1982. This portion of the building is currently vacant of occupant and therefore there are no current business operations. Refer to the paragraph above for additional information.

7.0 SUBJECT PROPERTY RECONNAISSANCE

Reconnaissance Information	
PM Field Personnel:	Mr. Kelly Thomas
Site Reconnaissance Date:	January 15, 2014
Weather Conditions:	25°F and overcast
Escort:	None
Limitations:	None identified

7.1: Subject Property Observations

The subject building contains a total 82,220 square feet of floor space, which is divided into offices, warehouse areas, and bathrooms.

Interior finish materials in the office area include two foot by four foot suspended acoustical ceiling tile, drywall and wood paneled walls, and carpeted and ceramic tiled flooring. The warehouse areas include open metal-deck ceilings, concrete block walls, and poured concrete flooring. The bathrooms include drywall ceilings and walls, and vinyl tiled flooring. The entire building is on a poured concrete foundation.

Exterior pavement is present north and east of the building. The remainder of the property contains asphalt-paved parking lots, groomed grass, and landscaped areas.

The following table summarizes the site observations. Affirmative responses are discussed in more detail following the table.

Category	Feature	Observed
Interior Equipment	Elevators	No
	Air Compressors	No
	Incinerators	No
	Waste Treatment Systems	No
	Presses/Stamping Equipment	No
	Press Pits	No
	Hydraulic Lifts or In-ground hoists	No
	Paint Booth	No
	Plating Tanks	No
	Lathes, Screw Machines, etc.	No
Aboveground Chemical or Other Waste Storage or Waste Streams	Aboveground Storage Tanks (ASTs)	No
	Drums, Barrels and/or Containers > 5 gallons	Yes
	Chip Hoppers	No
	Hazardous or Petroleum Waste Streams	No
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground Storage Tanks	No
	Fuel Dispensers	No
	Sumps or Cisterns	No
	Dry Wells	No
	Oil/Water Separators	No
	Floor Drains, Trench Drains, etc.	Yes
	Pipeline Markers	No
Exterior Observations	Stressed Vegetation	No
	Stained Soil or Pavement	No
	Monitoring Wells	No
	Pad or Pole Mounted Transformers and/or Capacitors	Yes
	Soil Piles of Unknown Origin	No
	Exterior Dumpsters with Staining	No
	Leachate or Other Waste Seeps	No
	Trash, Debris, and/or Other Waste Materials	No
	Uncontrolled Dumping or Disposal Areas	No
	Surface Water Discoloration, Sheen or Free Product	No
	Strong, Pungent or Noxious Odors	No
	Storm water retention or detention ponds	No
	Pits, Ponds, Lagoons	No

Drums, Barrels and/or Containers > 5 gallons: PM observed a 55-gallon drum of unknown contents south of the subject building. The drum was not in secondary containment but was placed on concrete and labeled as non-hazardous. The concrete in the area of the 55-gallon drum appeared to be in good condition with no signs of cracking and/or pitting. No staining or evidence of poor waste management practices was observed in association with the 55-gallon drum. Based on the observed site conditions, PM has not identified the 55-gallon drum storage as a REC. PM recommends that the 55-gallon drum be properly characterized and disposed.

Floor Drains, Trench Drains, etc.: PM observed floor drains in the bathrooms within the subject building. PM also observed a catch basin in the northern portion of the building. The integrity of the floor drains and catch basin is unknown. No staining or evidence of poor waste management was observed in association with the floor drains. The drains discharge into the

municipal sewer. Historical interior waste streams associated with the former manufacturing operations would have consisted of general hazardous substances and/or petroleum products. Previous site assessment activities have assessed the area of the catch basin. Refer to Section 4.9 for additional information.

Pad or Pole Mounted Transformers and/or Capacitors: PM observed seven pole-mounted transformers throughout the subject property. The transformers, which are likely owned by the local electrical provider, did not contain labels indicating PCB content; however, the transformers appeared to be good condition with no evidence of leaks.

7.1.1: Current Operations

The subject property is currently unoccupied and therefore there are no current business operations.

8.0 ADJOINING PROPERTIES

The following paragraphs provide information about the adjoining properties obtained during the site reconnaissance and through review of reasonably ascertainable information.

North Adjoining Properties, across East Harrison Avenue

The north adjoining properties are currently and have historically contained residences and/or undeveloped land dating back to at least 1931.

East Adjoining Property, across East Harrison Avenue

The east adjoining property, identified as 1300 Batavia Avenue, is currently occupied by George & Company, a commercial printing business, and Epic Motion, a photography studio. Review of historical sources indicates that this property was developed with a residential dwelling in the southeastern portion of the prior to 1949, which was demolished by 1961. The eastern portion of the current building was constructed between 1940 and 1945 in the eastern portion of the property. An addition was constructed to the western portion of the building by 2010. Former occupants have included various manufacturing operations and/or machine shop operations between at least 1945 and 2001. The building has been occupied by the current commercial printing operation since at least 2004. Previous site assessment activities have assessed this off-site concern. Refer to Section 4.9 for additional information. This property is listed in the regulatory database. Refer to Section 9.2 for additional information.

The remaining east adjoining properties are currently and have historically contained residences and/or undeveloped land dating back to at least 1940.

South Adjoining Properties

The southeast adjoining property, identified as 622 Macwilliams Lane, is currently occupied by a residential apartment complex. Review of historical sources indicates that this property was initially developed for commercial purposes prior to 1940, which included the construction of seven commercial buildings, which were demolished by 1990. This property remained undeveloped between at least 1990 and 2000. The current residential apartment complex was constructed between 2000 and 2005. Former occupants included a building contractor

warehouse and supply yard between at least 1940 and 1980. According to historical Sanborn maps, the former buildings were utilized as a machine shop, a welding shop, and for paint storage, equipment storage, and other miscellaneous storage. Previous site assessment activities have assessed this off-site concern. Refer to Section 4.9 for additional information.

The southwest adjoining properties are currently and have historically contained residences and/or undeveloped land since at least 1940.

West Adjoining Property

The west adjoining property currently contains undeveloped land. Review of historical sources indicates that this property contained railroad spurs prior to 1931, which were removed by 2005. Review of historical aerial photographs indicates that exterior storage of unknown materials was observed in the northern portion of the property between at least 1974 and 2000. Previous site assessment activities have assessed this off-site concern. Refer to Section 4.9 for additional information.

9.0 REGULATORY RECORDS REVIEW

PM retained EDR to provide current regulatory database information compiled by a variety of federal and state regulatory agencies. A copy of the complete database is included in Appendix D. The following information was obtained:

Type	Regulatory Agency Database	Approximate Minimum Search Distance (AMSD)	Number of Sites within AMSD
Federal	National Priority List (NPL) Sites	1 mile	0
Federal	Delisted National Priority List (DNPL) Sites	½ mile	0
Federal	Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) Sites	½ mile	0
Federal	CERCLIS No Further Remediation Action Planned (NFRAP) Sites	½ mile	0
Federal	Resource Conservation and Recovery Act (RCRA) Corrective Action Report (CORRACTS) Sites	1 mile	1
Federal	RCRA non-CORRACTS Treatment, Storage or Disposal (TSD) Sites	½ mile	0
Federal	RCRA Large Quantity Generators (LQG) Sites	subject property and adjoining properties	0
Federal	RCRA Small Quantity Generators (SQG) Sites	subject property and adjoining properties	0
Federal	RCRA Conditionally Exempt Small Quantity Generators (CESQG) Sites	subject property and adjoining properties	0
Federal	RCRA Non-Generators (NON-GEN) Sites	subject property and adjoining properties	1
Federal	Institutional Control / Engineering Control Registries	subject property	0
Federal	Environmental Response and Notification System (ERNS)	subject property	0
State & Tribal	Hazardous Waste Sites (HWS) (equivalents to NPL and CERCLIS)	1 mile	4
State & Tribal	Solid Waste Facilities/Landfill Sites (SWLF)	½ mile	0

Type	Regulatory Agency Database	Approximate Minimum Search Distance (AMSD)	Number of Sites within AMSD
State & Tribal	Leaking Underground Storage Tank (LUST) Sites	½ mile	11
State & Tribal	Registered Underground Storage Tank (UST) Sites	subject property and adjoining properties	0
State & Tribal	Institutional Control / Engineering Control Registries	subject property	0
State & Tribal	Brownfield Sites	½ mile	0
State & Tribal	Baseline Environmental Assessment (BEA) Sites	½ mile	20
Either	Unmappable Database Listings (a.k.a. Orphan Sites)	database-dependent	14

9.1: Subject Property and Occupant Listings

The regulatory database report identified the following listings for the subject property or its known occupants on the referenced databases:

Bell Plastics/PRN Services – The subject property is identified as a RCRA-NonGen site. Review of the regulatory database indicates that this property was formerly listed as a SQG in October 1988 and has been listed as a non-generator in September 1998 with no documented violations. The subject property is also listed as a Waste Data Systems (WDS) site under a former occupant. The site was listed as a liquid industrial waste generator in January 1970, which is the default date when this data is not recorded. Based on the short-term operations and the lack of documented violations, PM has not identified this listing as a REC.

9.2: Adjoining and Nearby Sites

PM's review of the referenced databases also considered the potential or likelihood of contamination from adjoining and nearby sites. To evaluate which of the adjoining and nearby sites identified in the regulatory database report present an environmental risk to the subject property, PM considered the following criteria:

- The type of database on which the site is identified.
- The topographic position of the identified site relative to the subject property.
- The direction and distance of the identified site from the subject property.
- Local soil conditions in the subject property area.
- The known or inferred groundwater flow direction in the subject property area.
- The status of the respective regulatory agency-required investigation(s) of the identified site, if any.
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes, and ditches) located between the identified site and the subject property.

Only those sites that are judged to present a potential environmental risk to the subject property and/or warrant additional clarification are further evaluated. Using the referenced criteria, and based upon a review of readily available information contained within the regulatory database report, PM did not identify adjoining (i.e., bordering) or nearby sites (e.g., properties within a ¼-

mile radius) listed in the regulatory database report that were judged to present a potential environmental risk to the subject property, with the exception of the following:

I.E. & E – This property is identified as 1300 Batavia Avenue, and is an east adjoining property. Review of the regulatory database indicates that this property is identified as a BEA site. PM attempted to review MDEQ file information; however, PM received a written denial from the MDEQ indicating the files associated with this listing could not be found. The regulatory database indicates that a Category N BEA was submitted for this property in November 2001. Previous site assessment activities have assessed this off-site concern. Refer to Section 4.9 for additional information.

10.0 FINDINGS, OPINIONS AND CONCLUSIONS

10.1: De Minimis Condition

A de minimis condition, as defined in the ASTM Standard, is a condition that generally does not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not RECs or CRECs. No de minimis conditions were identified during this assessment.

10.2: Significant Data Gaps

A data gap, as defined in the ASTM Standard, is a lack of or inability to obtain information required by the ASTM Standard despite good faith efforts by the environmental professional to gather such information. The environmental professional must then determine whether these gaps are significant. The following significant data gaps were identified by PM during the course of this ESA:

- PM was unable to confirm the operations on the subject property prior to 1940. The unknown operations are identified as a significant data gap that hinders PM's ability to identify RECs in association with the former operations prior to 1940.

10.3: Historical Recognized Environmental Conditions (HRECs)

An HREC, as defined in the ASTM Standard, is a past release of hazardous substances or petroleum products that has occurred in connection with the subject property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the subject property to any required controls. PM has not identified any HRECs in association with the subject property.

10.4: Controlled Recognized Environmental Conditions (CRECs)

A CREC, as defined in the ASTM Standard, is a recognized environmental condition (REC) resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. PM has not identified any CRECs in association with the subject property.

10.5: Recognized Environmental Conditions (RECs)

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the Commercial Property located at 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Oakland County, Michigan, the property. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of recognized environmental conditions connected with the property except the following:

- The subject property was formerly utilized for various commercial and/or industrial uses, including exterior coal storage, bulk fuel oil and/or road oil distribution operations, various manufacturing operations, and/or various machine shop operations between at least 1940 and 1990. Based upon review of the previous subsurface investigations, soil and groundwater contamination is present which exceeds the current Part 201 Residential and Nonresidential Generic Cleanup Criteria. Based on these analytical results, the subject property would be classified as a "facility," as defined by Part 201 of P.A. 451 of the Michigan Natural Resources Environmental Protection Act (NREPA), as amended.

No adjoining and/or nearby RECs have been identified.

10.6: Recommendations

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 of the Industrial Property located at 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Oakland County, Michigan, the property. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of recognized environmental conditions connected with the property except as listed in Section 10.5 of this report.

Parts 201 and 213 of the 1994 Michigan Natural Resources Environmental Protection Act (NREPA) provide liability protection for off-site migration of contamination to the subject property.

Additional site assessment activities which include the preparation of a BEA have been completed concurrently with this report. The additional information will be provided to the client under separate cover.

11.0 NON-ASTM SCOPE CONSIDERATIONS/BUSINESS ENVIRONMENTAL RISKS

PM has included a discussion of Non-ASTM Scope Considerations based upon industry standards and lender requirements. A Business Environmental Risk is defined as a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice.


Non-ASTM Item	Observations or Information
Potential Asbestos Containing Building Materials (ACBM)	Based upon PM's limited visual observations during the site reconnaissance, suspect ACBMs included vinyl floor tiles, drywall walls, and acoustical ceiling tiles. The materials appeared to be in fair to poor condition. PM previously completed a pre-renovation ACBM survey in 2013, which documented that ACM are present and will require removal by a licensed abatement contractor based upon condition or if it is to be disturbed as part of renovation activities.
Lead Based Paint	Based upon PM's limited visual observations during the site reconnaissance, no chipping or peeling paint was observed on the walls and ceilings in the building. Because the building was initially constructed in 1962, there is the potential for lead based paint to be present. PM previously completed a pre-renovation LBP survey in 2013, which documented that varying concentrations of LBP was present in the building. PM recommends that engineering controls be implemented for renovation work on identified lead containing painted surfaces that may be cut with a torch, welded, sawed, or otherwise cut. In addition, enclosures and high efficiency particulate air (HEPA) vacuums may be utilized to limit potential exposure to lead during selective demolition of lead paint coated building components.
Visual Mold or Significant Moisture Damage	Based upon PM's limited visual observations during the site reconnaissance, water damage was observed on numerous ceiling tiles and drywall in the building. PM recommends that the source of moisture intrusion be properly repaired as part of ongoing building maintenance. PM can provide a proposal to complete a mold survey at the request of the client.

12.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

We declare that, to the best of our professional knowledge and belief, we meet the definition of *Environmental professional* as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Shawn Shadley
Regional Due Diligence Manager



Steven E. Price, CHMM
Principal and Vice President of Due Diligence

13.0 REFERENCES

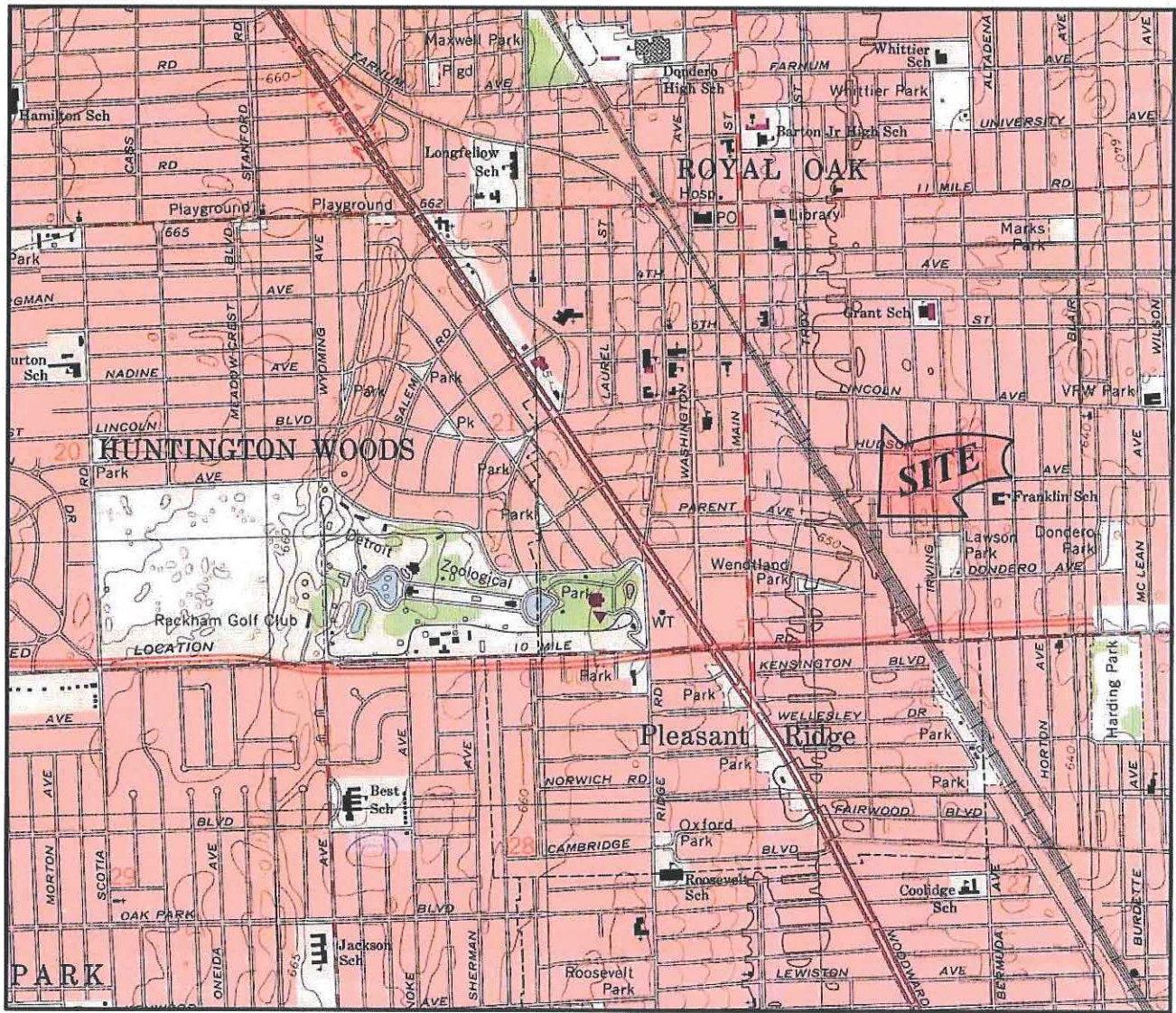
The following published sources were utilized during completion of this Phase I ESA:

- *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM, ASTM Designation E 1527-13, Published November 2013.
- Bresser's Cross-Index City Directories, Bresser's in Detroit, Michigan. City: Royal Oak. Years: 1945-2012.
- United States Geological Survey Division (U.S.G.S.) 7.5 Minute Topographic Map Royal Oak, Michigan Quadrangle, 1996.
- United States Department of Agriculture, Custom Soil Resource Report for Oakland County, Michigan (survey area data from September 27, 2012).

In addition, PM reviewed the following previous site investigations, some of which are available from public sources.

Name of Report	Date of Report	Company that Prepared Report
Phase I ESA	10-6-2012	PM
Phase II ESA	11-19-2012	PM
Facility Delineation Report	1-6-2014	PM

Figures



OAKLAND COUNTY

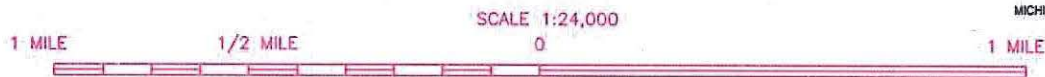


FIGURE 1
PROPERTY VICINITY MAP
USGS, 7.5 MINUTE SERIES
ROYAL OAK, MI QUADRANGLE, 1996.



**Environmental
& Engineering
Services**

PROJ:
COMMERCIAL PROPERTY
1210 - 1232 MORSE AVENUE AND 620
EAST HARRISON AVENUE
ROYAL OAK, MI

THIS IS NOT A LEGAL
SURVEY

VERIFY SCALE
0 2,000'
IF NOT 1" ON THIS
SHEET, ADJUST
SCALES ACCORDINGLY.

DRN BY: DF/CS

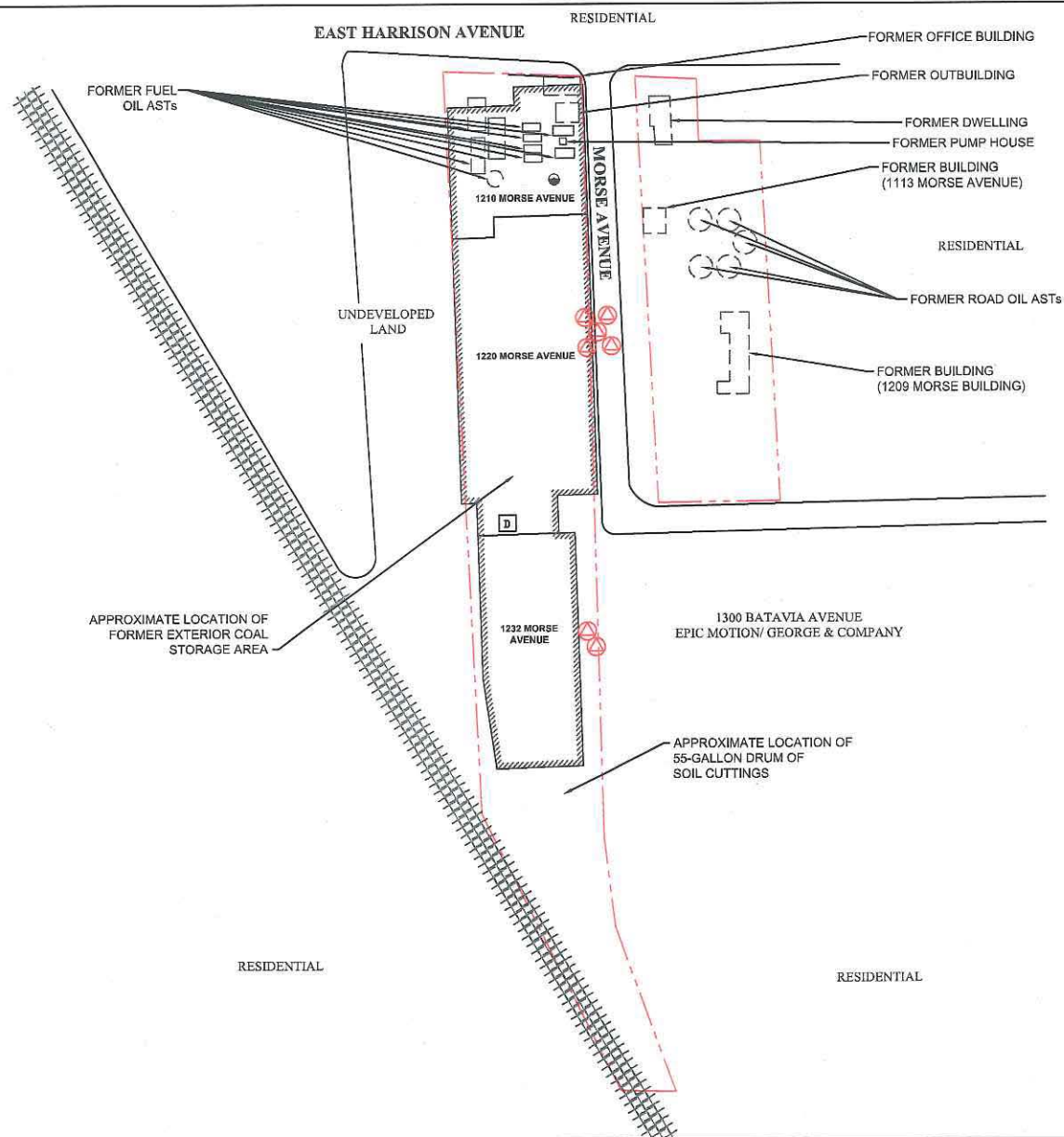
CHKD BY: BH

FILE NAME:

DATE: 1/21/2014

SCALE: 1" = 2,000'

02-5771-5F01R00



LEGEND:

	SUBJECT PROPERTY
	FORMER/HISTORICAL SITE FEATURES
	RAIL ROAD TRACKS
	POLE MOUNTED TRANSFORMER
	DUMPSTER
	CATCH BASIN
	AST
	ABOVE GROUND STORAGE TANK



Environmental
& Engineering
Services

FIGURE 2
GENERALIZED DIAGRAM OF THE SUBJECT
PROPERTY AND ADJOINING PROPERTIES

PROJ: COMMERCIAL PROPERTY
1210 - 1232 MORSE AVENUE AND 620 EAST HARRISON
AVENUE
ROYAL OAK, MI

THIS IS NOT A LEGAL SURVEY	DRN BY: DF/CS	DATE: 1/21/2014
GRAPHIC SCALE 0 120'	CHKD BY: BH	SCALE: 1"=120'
IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	FILE NAME:	02-5771-5F02R00

Appendix A



SITE PHOTOGRAPHS



Photographs From Site Reconnaissance

PM Project No. 02-5771-5

**Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan**

Photograph 1



The front and east face of the subject building

Photograph 2



The south face of the subject building



Photographs From Site Reconnaissance

PM Project No. 02-5771-5

**Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan**

Photograph 3



The west face of the subject building

Photograph 4



Building Interior
(offices)

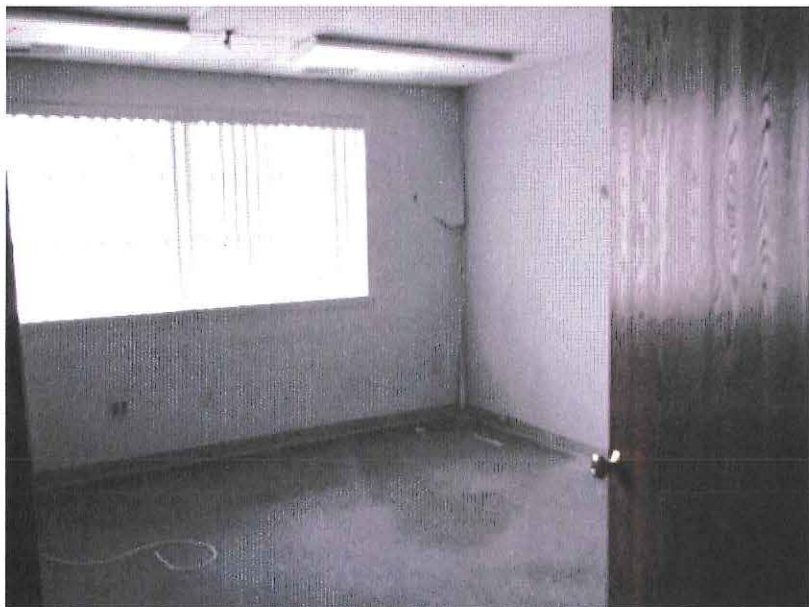


Photographs From Site Reconnaissance

PM Project No. 02-5771-5

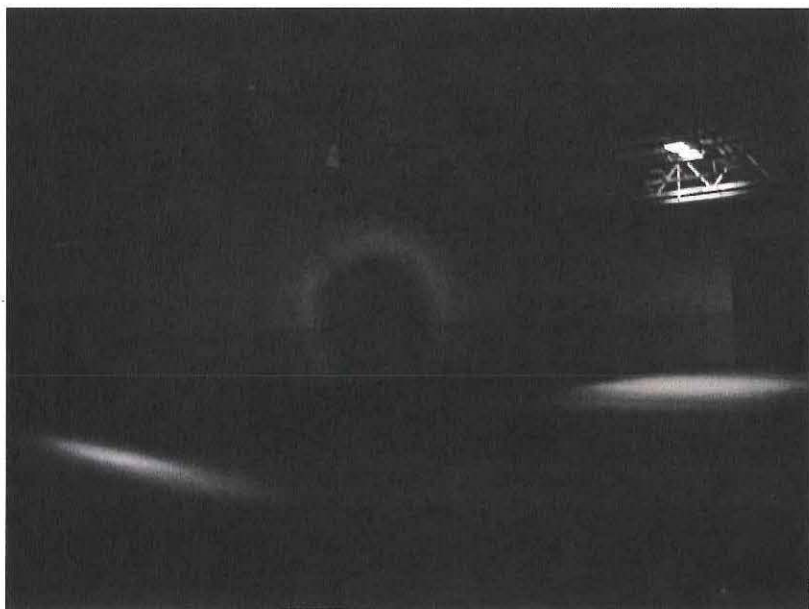
**Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan**

Photograph 5



Building Interior
(offices)

Photograph 6



Building Interior
(warehouse)

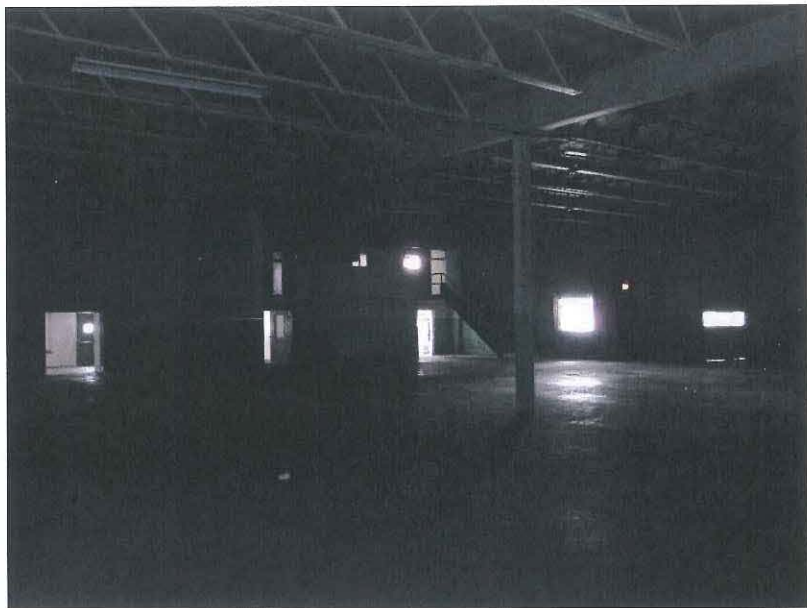


Photographs From Site Reconnaissance

PM Project No. 02-5771-5

**Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan**

Photograph 7



Building Interior
(warehouse)

Photograph 8



Building Interior
(bathroom)



Photographs From Site Reconnaissance

PM Project No. 02-5771-5

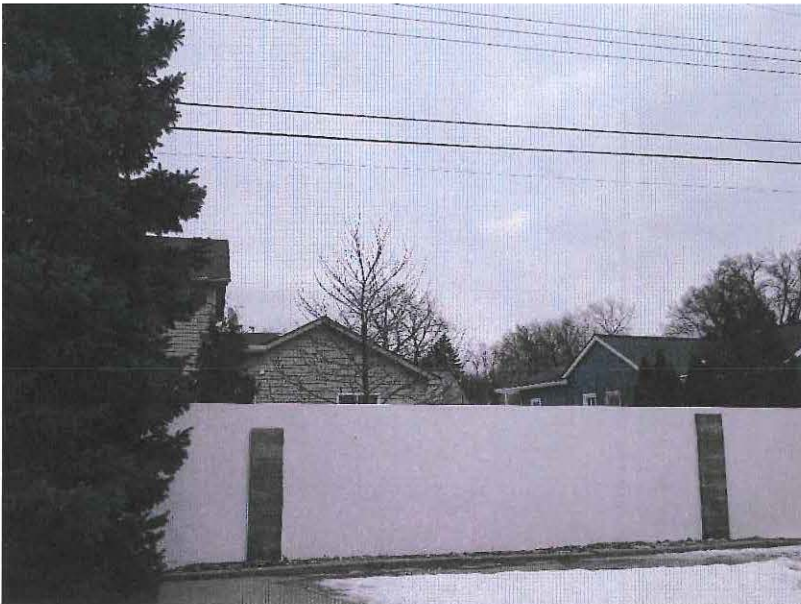
**Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan**

Photograph 9



General view of the north adjoining properties

Photograph 10



General view of the east adjoining properties



Photographs From Site Reconnaissance

PM Project No. 02-5771-5

**Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan**

Photograph 11



The southeast adjoining property, identified as
1300 Batavia Avenue

Photograph 12



General view of the remaining southeast
adjoining property

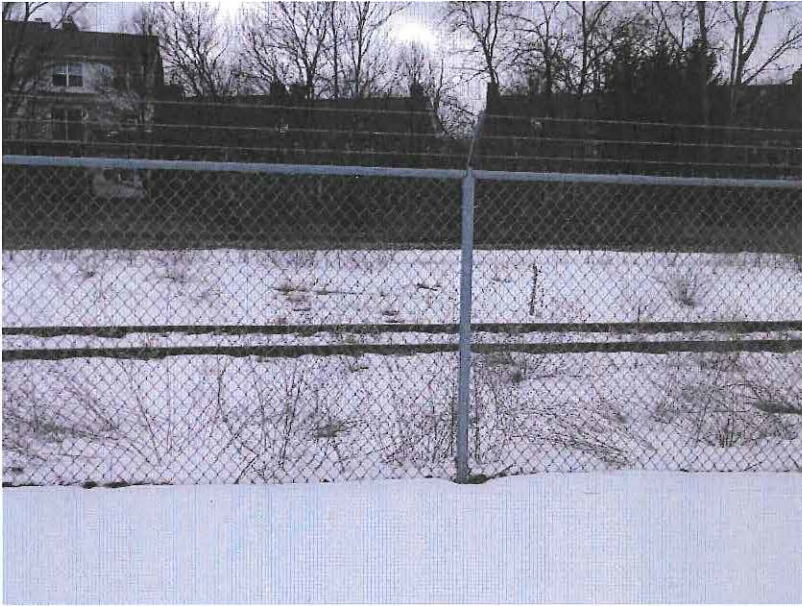


Photographs From Site Reconnaissance

PM Project No. 02-5771-5

**Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan**

Photograph 13



General view of the southwest adjoining
properties

Photograph 14



General view of the west adjoining undeveloped
land

Appendix B



USER QUESTIONNAIRE

Phase I ESA - ASTM User Questionnaire

Project Address:	1210, 1220, and 1232 Morse Avenue and 620 East Harrison Avenue in Royal Oak, Michigan
-------------------------	--

The ASTM Standard defines a User as "the party seeking to use Practice E 1527 to complete an environmental site assessment. A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager.

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfield's Revitalization Act of 2001 (the "Brownfield's Amendments") the **User** must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

Please answer the following questions to the best of your knowledge and return to PM Environmental, Inc. (PM) with the signed copy of your proposal.

1. Environmental Clean-up liens that are filed or recorded against the site (40 CFR 312.25)

Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? Yes ☐ **No** ☒

If so, please describe that type of liens:

2. Activity and land use limitations that are in place on the site or that have been filed in a registry (40 CFR 312.26)

Are you aware of any Activity and Use Limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law? Yes ☐ **No** ☒

If yes, what type of AULs are you aware of?

3. Specialized knowledge or experience of the person seeking to qualify for a LLP (40 CFR 312.28)

As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and the processes used by this type of business? Yes ☐ **No** ☒

If yes, what type of business are you associated with?

What types of chemicals are used in your business?

Phase I ESA - ASTM User Questionnaire

Project Address:	1210, 1220, and 1232 Morse Avenue and 620 East Harrison Avenue in Royal Oak, Michigan
-------------------------	---

4. Relationship to the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29)

Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

Yes ☒ No

If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

☒ Yes No

5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30)

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example as a user:

a. Do you know of the past uses of the property?

Yes ☒ No

If yes, please list what past uses are you aware of?

b. Do you know of specific chemicals that are present or once were present at the property?

Yes ☒ No

If yes, please list what chemicals you are aware of?

c. Do you know of spills or other chemical releases that have taken place on the property?

Yes ☒ No

d. Do you know of any environmental cleanups which have taken place on the property?

Yes ☒ No

If yes, do you have copies of any of the reports documenting the work?

Yes ☒ No

If you have any documentation of the previous environmental clean-up please provide copies to PM when you return this questionnaire.

Phase I ESA - ASTM User Questionnaire

Project Address:	1210, 1220, and 1232 Morse Avenue and 620 East Harrison Avenue in Royal Oak, Michigan
------------------	---

6. The degree of the obviousness of the presence of likely presence of contamination at the property and the ability to detect the contamination by appropriate investigation (40CFR 312.31)

As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination on the property? Yes ☐ No ☒

If yes, please comment on what those indicators are (i.e. lower purchase price, areas of staining,

poor housekeeping, etc.):

User Name:

HARRISON LOFTS LLC

Company Name property is being purchased under:

HARRISON LOFTS LLC

Street Address:

300 ACORN DRIVE, BRIGHTON MI, 48116

City, State, Zip code:

User Phone Number:

810-560-4749

Signature of the User:

Kevin Z. Wilson AGENT FOR HARRISON LOFTS LLC

Date Questionnaire was completed on:

12/23/13

SOIL SURVEY INFORMATION



United States
Department of
Agriculture



NRCS

Natural
Resources
Conservation
Service

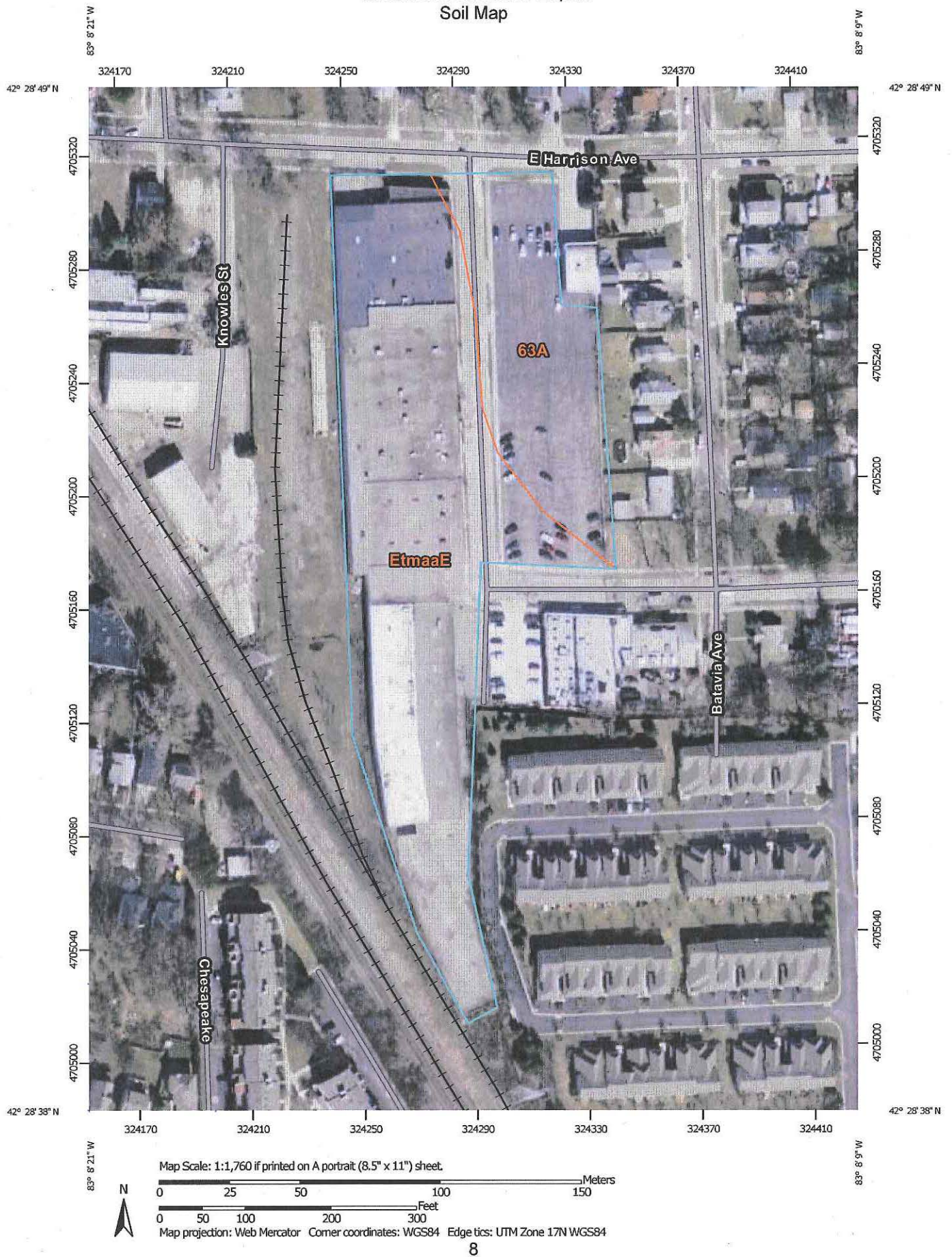
A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Oakland County, Michigan



January 8, 2014


Custom Soil Resource Report Soil Map




Custom Soil Resource Report


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)


Soils

 Soil Map Unit Polygons


 Soil Map Unit Lines

 Soil Map Unit Points


Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot


 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry


 Miscellaneous Water


 Perennial Water


 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot




Other



Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Oakland County, Michigan
Survey Area Data: Version 9, Sep 27, 2012

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 14, 2012—Apr 9, 2012

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Oakland County, Michigan

63A—Urban land-Thetford complex, 0 to 3 percent slopes

Map Unit Setting

Elevation: 660 to 980 feet

Mean annual precipitation: 35 to 40 inches

Mean annual air temperature: 50 to 55 degrees F

Frost-free period: 155 to 180 days

Map Unit Composition

Urban land: 60 percent

Thetford and similar soils: 25 percent

Minor components: 15 percent

Description of Thetford

Setting

Landform: Flats on lake plains, flats on outwash plains, drainageways on outwash plains, drainageways on lake plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Convex

Parent material: Sandy glaciofluvial deposits

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)

Depth to water table: About 12 to 24 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Low (about 4.7 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 3w

Hydrologic Soil Group: A

Typical profile

0 to 9 inches: Loamy fine sand

9 to 20 inches: Loamy fine sand

20 to 45 inches: Loamy sand

45 to 60 inches: Sand

Minor Components

Houghton

Percent of map unit: 5 percent

Landform: Depressions on moraines, depressions on outwash plains, depressions on till plains

Landform position (three-dimensional): Dip

Down-slope shape: Linear

Across-slope shape: Linear

Custom Soil Resource Report

Adrian

Percent of map unit: 5 percent

Landform: Depressions on till plains, depressions on moraines, depressions on outwash plains

Landform position (three-dimensional): Dip

Down-slope shape: Linear

Across-slope shape: Linear

Granby

Percent of map unit: 5 percent

Landform: Depressions on outwash plains, depressions on lake plains

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

EtmaaE—Udorthents and Udipsamments, nearly level to hilly

Map Unit Setting

Elevation: 680 to 1,000 feet

Mean annual precipitation: 31 to 32 inches

Mean annual air temperature: 47 to 47 degrees F

Frost-free period: 137 to 179 days

Map Unit Composition

Udorthents and similar soils: 60 percent

Udipsamments and similar soils: 40 percent

Description of Udorthents

Setting

Landform: Ground moraines

Landform position (three-dimensional): Rise

Down-slope shape: Concave

Across-slope shape: Convex

Parent material: Loamy till

Properties and qualities

Slope: 0 to 30 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Available water capacity: Moderate (about 6.5 inches)

Typical profile

0 to 8 inches: Silt loam

Custom Soil Resource Report

8 to 39 inches: Clay loam
39 to 80 inches: Clay loam

Description of Udipsamments

Setting

Landform: Ground moraines
Landform position (three-dimensional): Rise
Down-slope shape: Concave
Across-slope shape: Convex
Parent material: Sandy glaciofluvial deposits

Properties and qualities



Slope: 0 to 30 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High to very high (2.00 to 20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Available water capacity: Low (about 4.5 inches)

Typical profile

0 to 4 inches: Fine sandy loam
4 to 12 inches: Loamy fine sand
12 to 30 inches: Loamy fine sand
30 to 80 inches: Gravelly loamy fine sand

AERIAL PHOTOGRAPHS



	Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Michigan	
	PM Project No. 02-5771-5	
	Aerial Year: 1940	
	Source: Michigan State University Aerial Archive	

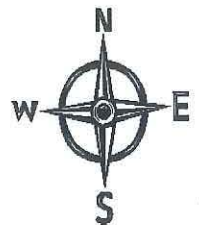


Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan

PM Project No. 02-5771-5

Aerial Year: 1949

Source: Wayne State University



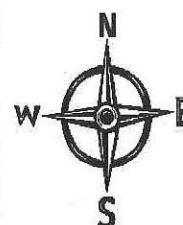


**Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan**

PM Project No. 02-5771-5

Aerial Year: 1952

Source: Wayne State University



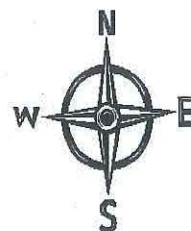


Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan

PM Project No. 02-5771-5

Aerial Year: 1957

Source: Wayne State University



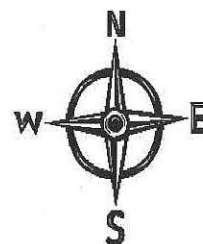


Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan

PM Project No. 02-5771-5

Aerial Year: 1961

Source: Michigan State University Aerial Archive





Subject
Property

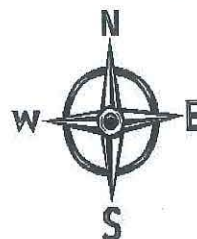


Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan

PM Project No. 02-5771-5

Aerial Year: 1963

Source: Oakland County GIS



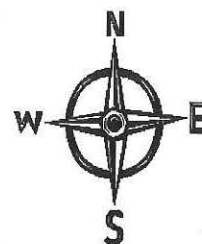


**Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan**

PM Project No. 02-5771-5

Aerial Year: 1974

Source: Oakland County GIS



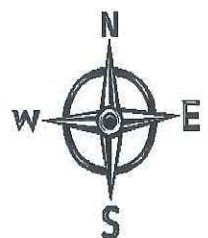


Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan

PM Project No. 02-5771-5

Aerial Year: 1980

Source: Oakland County GIS



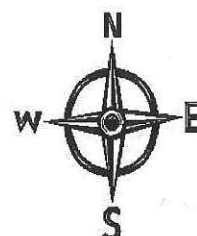


**Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan**

PM Project No. 02-5771-5

Aerial Year: 1990

Source: Oakland County GIS



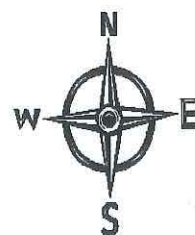


Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan

PM Project No. 02-5771-5

Aerial Year: 1997

Source: Oakland County GIS



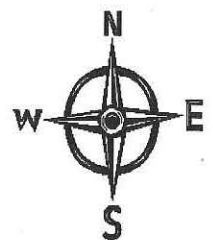


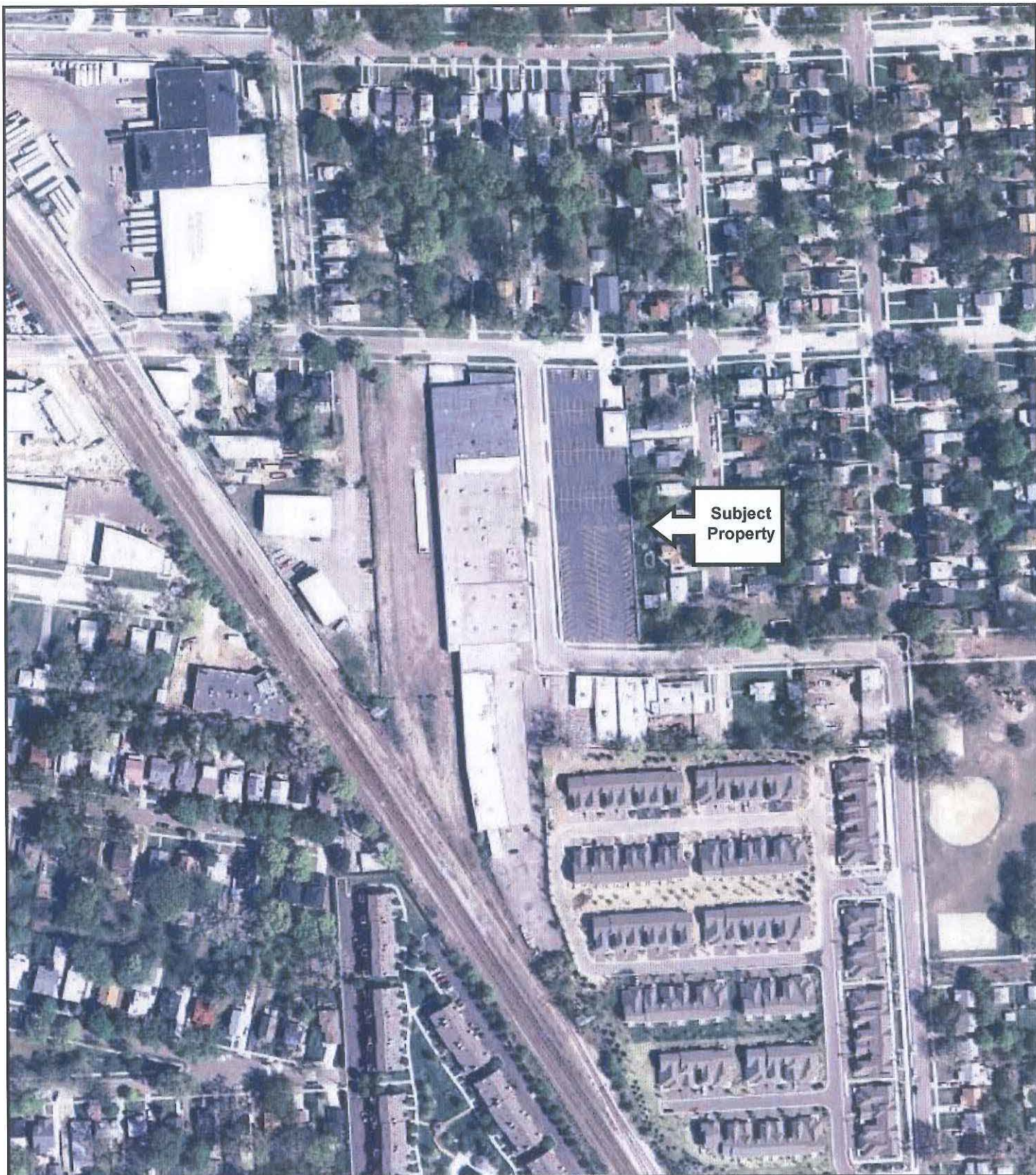
**Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan**

PM Project No. 02-5771-5

Aerial Year: 2000

Source: Oakland County GIS





Subject
Property



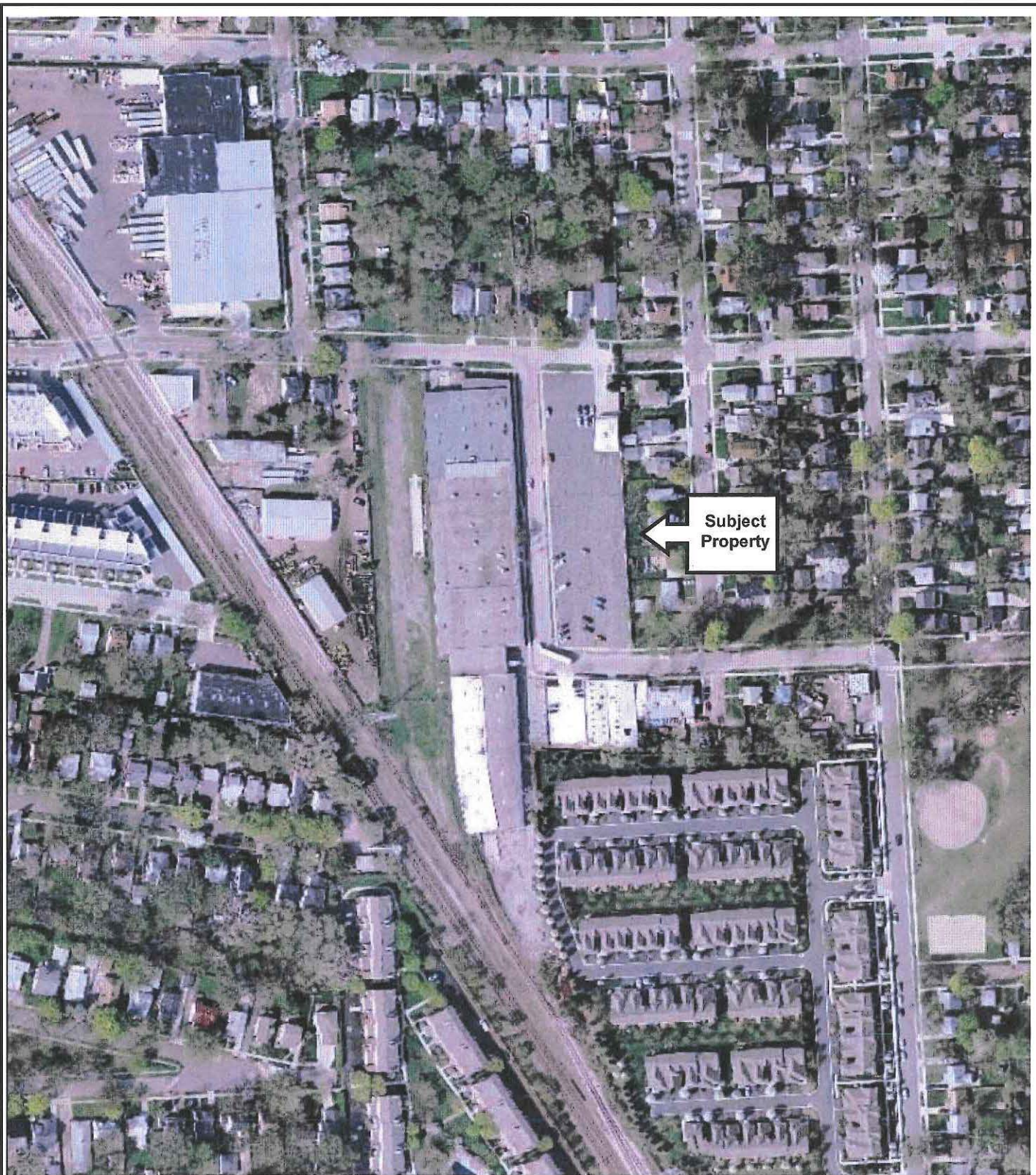
Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan

PM Project No. 02-5771-5

Aerial Year: 2005

Source: Oakland County GIS



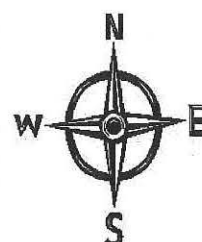


Location: 1210-1232 Morse Avenue and 620 East Harrison Avenue,
Royal Oak, Michigan

PM Project No. 02-5771-5

Aerial Year: 2010

Source: Oakland County



SANBORN FIRE INSURANCE MAPS

Certified Sanborn® Map Report

7/20/12

Site Name:

1210, 1220, and 1232 Morse
1210, 1220, and 1232 Morse
Royal Oak, MI 48067

Client Name:

PM Environmental, Inc.
3340 Ranger Road
Lansing, MI 48906

EDR Inquiry # 3371984.3

Contact: Bryant J Hengst



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by PM Environmental, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 1210, 1220, and 1232 Morse Avenue
Address: 1210, 1220, and 1232 Morse Avenue
City, State, Zip: Royal Oak, MI 48067
Cross Street:
P.O. # 02-5771-0
Project: 02-5771-0
Certification # D093-47C1-8C6C

Maps Provided:

1968
1953
1950
1931



Sanborn® Library search results
Certification # D093-47C1-8C6C

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

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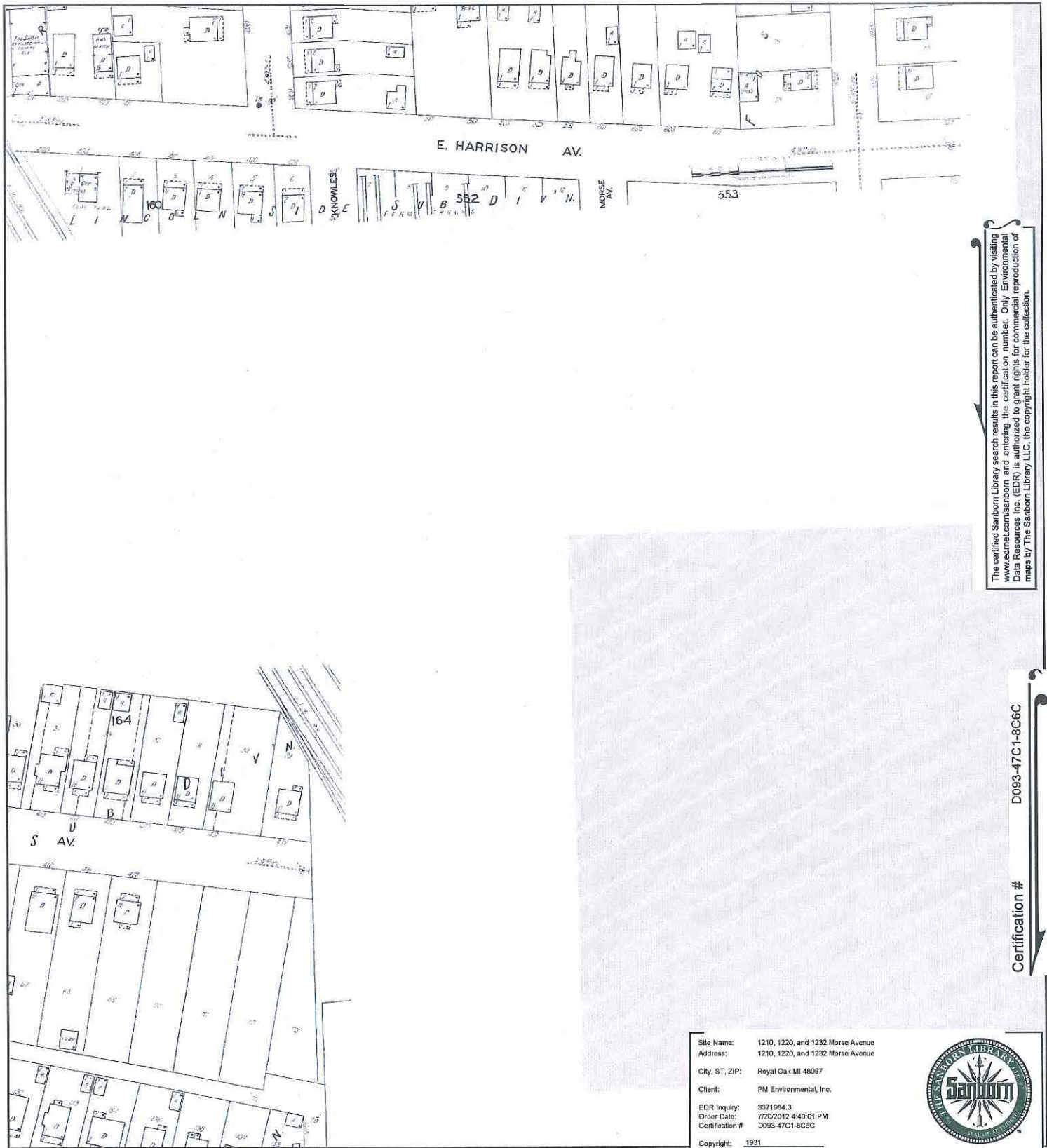
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1931 Certified Sanborn Map



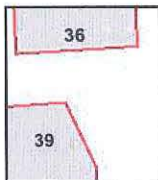
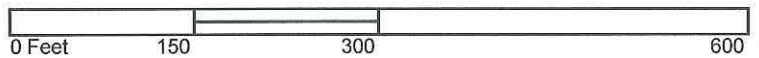
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Certification # D093-47C1-8C6C

Site Name: 1210, 1220, and 1232 Morse Avenue
 Address: 1210, 1220, and 1232 Morse Avenue
 City, ST, ZIP: Royal Oak MI 48067
 Client: PM Environmental, Inc.
 EDR Inquiry: 3371984.3
 Order Date: 7/20/2012 4:40:01 PM
 Certification #: D093-47C1-8C6C
 Copyright: 1931



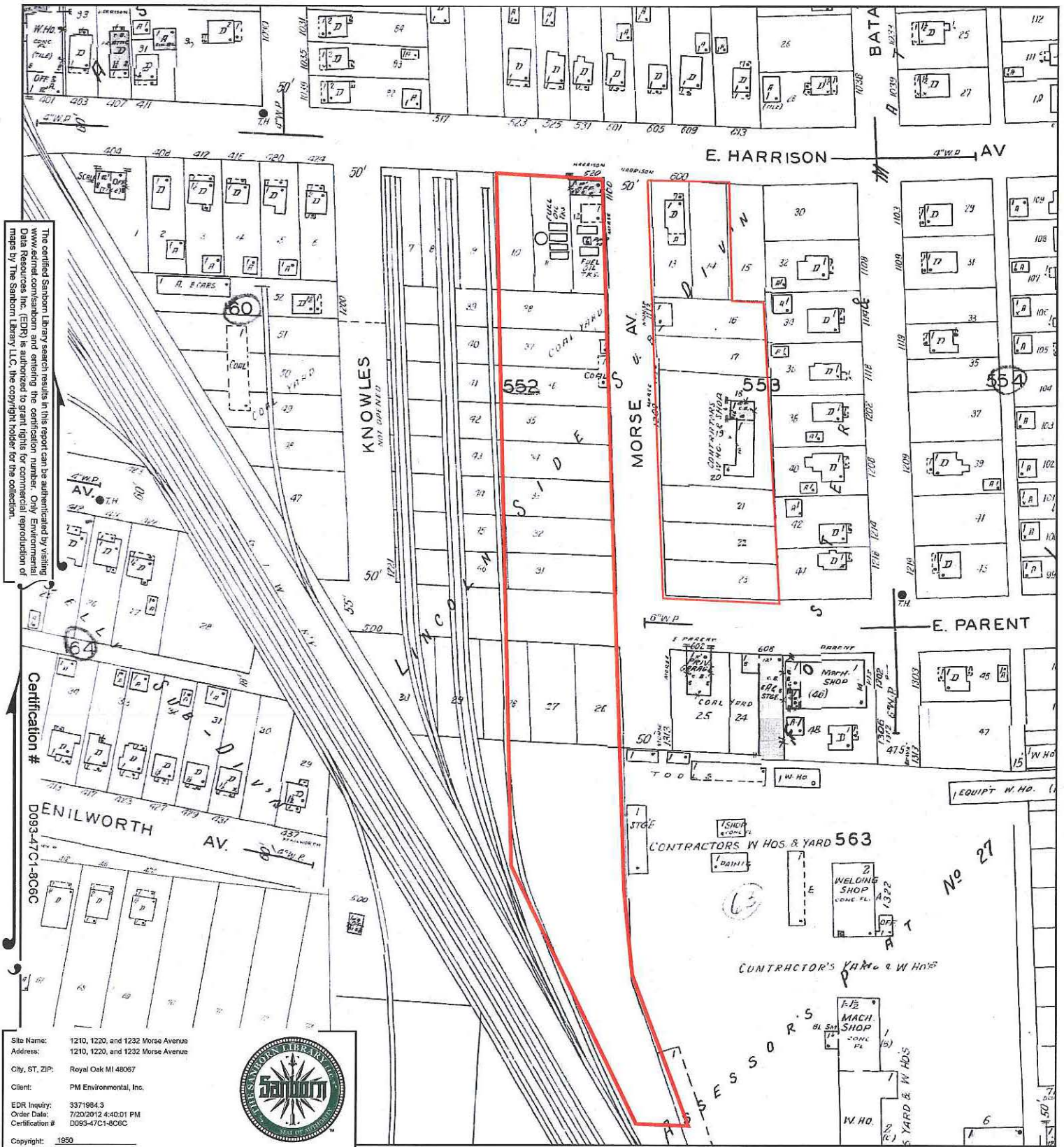
This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.



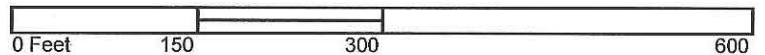
Volume 1, Sheet 36
 Volume 1, Sheet 39



1950 Certified Sanborn Map



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 Outlined areas indicate map sheets within the collection.

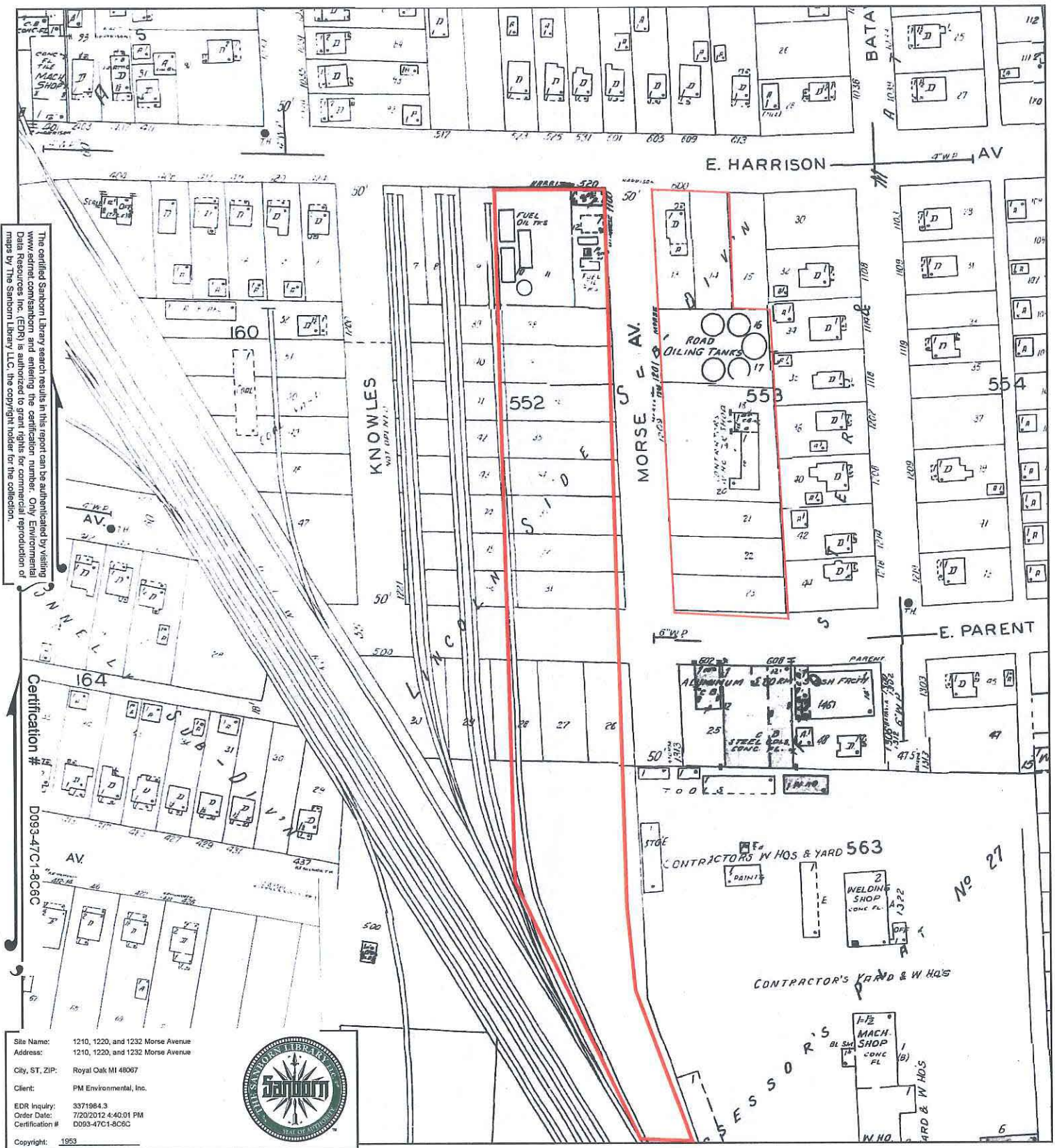


Volume 1, Sheet 36

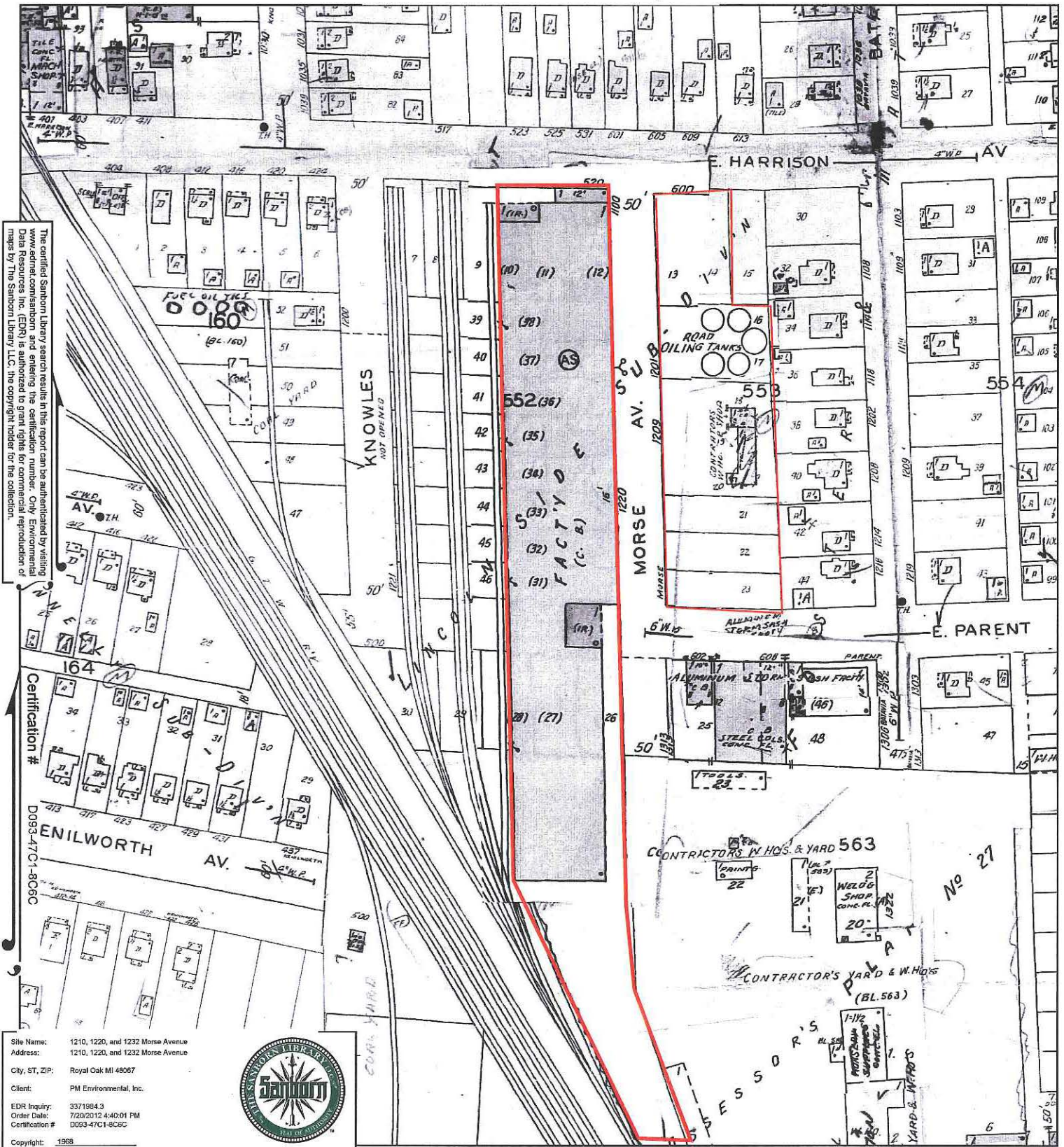
36



1953 Certified Sanborn Map



1968 Certified Sanborn Map



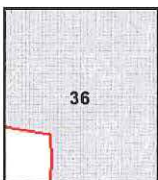
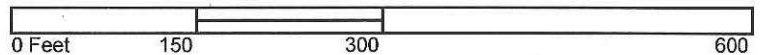
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Certification #
D093-47C1-8C6C

Site Name: 1210, 1220, and 1232 Morse Avenue
Address: 1210, 1220, and 1232 Morse Avenue
City, ST, ZIP: Royal Oak MI 48067
Client: PM Environmental, Inc.
EDR Inquiry: 3371984.3
Order Date: 7/20/2012 4:40:01 PM
Certification #: D093-47C1-8C6C
Copyright: 1968



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 36



ASSESSING DEPARTMENT RECORDS

Note: Please be advised the data included in Property Gateway originates from multiple local municipalities. Data, in regard to properties, may be classified and updated differently by municipalities. If you have any questions, please contact the local community where the data originated.

Owner Information

Owner(s) : TLD ROCHLIN LLC & MORRIS ROCHLIN TRUST
 Mailing Address : 1177 WHITE PINE CT INTERLOCHEN MI 49643-9132

Location Information

Site Address : 620 E HARRISON AVE ROYAL OAK MI 48067-3316
 PIN : 25-22-334-001 Neighborhood Code : IS3
 Municipality : City of Royal Oak
 School District : 230 ROYAL OAK CITY SCHLS
 Use : 301 IND IMP (Industrial Imp.)
 Water Indicator : Y Sewer Indicator : Y
 Well Indicator : N Septic Indicator : N

Property Description

T1N, R11E, SEC 22 LINCOLNSIDE SUB LOTS 13, 14 & LOTS 16 TO 23 INCL NOTE: ASSESSED WITH TAX
 PCLS 25-22-377-029, 030 & 031

Most Recent Sale Since 1994

Date : 03/19/2013
 Amount : \$1 Liber : 45612:445
 Grantee : TLD-ROCHLIN
 Grantor : R F MORSE CO MORRIS ROCHLIN TR

Tax Information

Taxable Value	: \$52,170	State Equalized Value	: \$67,410
Current Assessed Value	: \$67,410	Capped Value	: \$52,170
Effective Date For Taxes	: 12/01/2013	Principal Residence Exemption	: 0%
2012 Taxes		2013 Taxes	
Summer	: \$3,169.69	Summer	: \$2,612.58
Winter	: \$248.07	Winter	: \$254.00
Village	: \$0.00	Village	: \$0.00

Lot Information

Description : LEVEL Acres : 1.109

Grantor	Grantee	Sale Price	Sale Date	Inst Type	Terms of Sale	Liber aPage	Verified by	Prct Trans
ROCHLIN MORRIS	MORRIS ROCHLIN TR	1	04/02/2009	WD	2-\$1orNoConsideratn	41072:116	PTA	0.0

Property Address 2210 MORSE AVE		Class: 201 Bus Imp	Zoning: II	Building Permit(s)	Date	Number	Status				
Owner's Name/Address TLD ROCHLIN LLC MORRIS ROCHLIN TRUST 1177 WHITE PINE CT INTERLOCHEN MI 49643		School: 230 Royal Oak City Schis									
		P.R.E. 01									
		ITOnly: POST									
		2012 Est TCV 727,717 TCV/TFA: 20.62									
Description T1N, R11E, SEC 22 LINCOLNSIDE SUB E 15.60 FT OF LOT 9, ALL OF LOTS 10, 11 & 12, ALL OF LOTS 35 TO 38 INCL & E 15.60 FT OF LOTS 39 TO 42 INCL, ALSO THOSE PARTS OF LOT 34 & E 15.60 FT OF LOT 43 LYING N OF LINE DESC AS BEG AT PT DIST S 01-33-35 E 286.40 FT FROM NE COR OF SD LOT 12, TH S 88-02-20 W 115.00 FT, TH S 01-57-40 E 2.03 FT, TH S 88-02-20 W 20.09 FT TO END 10/14/87 FR 008		X Improved	Vacant	Land Value Estimates for Land Table IS3.Land Table IS3 * Factors *							
		Public Improvements		Description	Frontage	Depth	Front Depth	Rate %Adj. Reason	Value		
		Dirt Road		IS3	GEN IND 1	64033	SqFt	2.50 100	160,083		
		Gravel Road		1.47 Total Acres					Total Est. Land Value =		
		Paved Road							160,083		
		Storm Sewer									
		Sidewalk									
		Water									
		Sewer									
		Electric									
		Gas									
		Curb									
		Street Lights									
		Standard Utilities									
		Underground Utils.									
Comments/Influences		Topography of Site									
		X Level									
		Rolling									
		Low									
		High									
		Landscaped									
		Swamp									
		Wooded									
		Pond									
		Waterfront									
		Ravine									
		Wetland									
		Flood Plain									
The Equalizer. Copyright (c) 1999 - 2000. Licensed to: Oakland County Equalization.		Who	When	What	Year	Land Value	Building Value	Assessed Value	Board of Review	Tribunal/ Other	Taxable Value
		034	05/15/2001	Other	2012	80,040	283,820	363,860			363,860S
		099	03/01/1990	Other	2011	112,060	288,970	401,030			377,380C
		/	/	SelectAc	2010	144,100	302,190	446,290			371,080C
					2009	144,100	341,730	485,830			372,200C

Printed on: 06/21/2012

Desc. of Bldg/Section: Building 1, Section 1						<<<<								Calculator Cost Computations							>>>>														
Calculator Occupancy: Warehouse, Storage														Class: C Quality: Average Percent Adj: +0																					
Class: C						Construction Cost									Base Rate for Upper Floors = 29.80																				
Floor Area: 35,292 Stories Above Grd: 1 Average Sty Hght : 14 Bsmnt Wall Hght :						High Above Ave. Ave. X Low									(10) Heating system: Space Heaters, Gas with Fan Cost/SqFt: 0.00 70% (10) Heating system: Package Heating & Cooling Cost/SqFt: 5.25 30% <div style="text-align: right;">Combined Heating System adjustment: 1.58 100%</div>																				
Depr. Table : 2+ Effective Age : 34 Physical %Good: 50 Func. %Good : 100 Economic %Good: 100						** ** Calculator Cost Data ** ** Quality: Average Adj: +%0 \$ /Sqft: 0.00 Heat#1: Space Heaters, Gas with Fan 70% Heat#2: Package Heating & Cooling 30% Ave. Sqft/Story: 35292 Ave. Perimeter: 825 Has Elevators:									Adjusted Square Foot Cost for Upper Floors = 31.38																				
1962 Year Built Remodeled						*** Basement Info *** Area: Perimeter: Type: Heat:									1 Stories Number of Stories Multiplier: 1.000 Average Height per Story: 14 Height per Story Multiplier: 1.000 Ave. Floor Area: 35,292 Perimeter: 825 Perim. Multiplier: 0.924 Refined Square Foot Cost for Upper Floors: 28.99																				
Overall Bldg Height						* Mezzanine Info * Area #1: Type #1: Area #2: Type #2:									County Multiplier: 1.46, Final Square Foot Cost for Upper Floors = 42.326																				
Comments:						* Sprinkler Info * Area: Type:									Total Floor Area: 35,292 Base Cost New of Upper Floors = 1,493,774 <div style="text-align: right;">Reproduction/Replacement Cost = 1,493,774 Eff.Age:34 Phy.%Good/Abnr.Phy./Func./Econ./Overall %Good: 50 /100/100/100/50.0 Total Depreciated Cost = 746,867</div>																				
															ECF (E.C.F. Table IS3) 0.760 => TCV of Bldg: 1 = 567,634 Replacement Cost/Floor Area= 42.33 Est. TCV/Floor Area= 16.08																				
(1) Excavation/Site Prep:						(7) Interior:						(11) Electric and Lighting:						(39) Miscellaneous:																	
(2) Foundation:						Footings						(8) Plumbing:																							
X Poured Conc.						Brick/Stone						Block						Many Above Ave.						Average Typical						Few None					
(3) Frame:						Total Fixtures						Urinals						Flex Conduit						Incandescent											
						3-Piece Baths						Wash Bowls						Rigid Conduit						Flourescent											
						2-Piece Baths						Water Heaters						Armored Cable						Mercury											
						Shower Stalls						Wash Fountains						Non-Metallic						Sodium Vapor											
						Toilets						Water Softeners						Bus Duct						Transformer											
(4) Floor Structure:						(9) Sprinklers:						(13) Roof Structure:						Slope=0																	
(5) Floor Cover:						(10) Heating and Cooling:						(14) Roof Cover:																							
						Gas Oil						Coal Stoker						Hand Fired Boiler																	
(6) Ceiling:																																			

Grantor	Grantee	Sale Price	Sale Date	Inst Type	Terms of Sale	Liber & Page	Verified by	Prcnt Trans			
Property Address 1220 MORSE AVE		Class: 201 Bus Imp	Zoning: II	Building Permit(s)		Date	Number	Status			
Owner's Name/Address TLD ROCHLIN LLC MORRIS ROCHLIN TRUST 1177 WHITE PINE CT INTERLOCHEN MI 49643		School: 230 Royal Oak City Schls		CentralAir/Generator		05/01/2003	722003112120	Closed			
		P.R.E. 0%									
		ITOnly: POST									
		2012 Est TCV 690,875 TCV/TFA: 24.00									
Description T1N, R11E, SEC 22 LINCOLNSHIRE SUB PART OF LOTS 27 & 28, ALL OF LOTS 31, 32 & 33, PART OF LOT 34 & PART OF LOTS 43 TO 46 INCL, ALSO PART OF LOTS 3 & 4 OF 'ASSESSOR'S PLAT NO 27', ALL DESC AS BEG AT PT DIST S 01-33-35 E 286.40 FT FROM NE COR OF LOT 12 OF SD 'LINCOLNSIDE SUB', TH S 01-33-35 E 202.90 FT, TH S 88-18-18 W 58.91 FT, TH S 01-41-42 E 0.81 FT, TH S 88-18-18 W 58.25 FT, TH N 01-33-35 W 29.05 FT, TH N 86-36-00 W 18.00 FT, TH N 01-33-35 W 170.40 FT, TH N 88-02-20 E 20.09 FT, TH N 01-57-40 W 2.03 FT, TH N 88-02-20 E 115.00 FT TO BEG 10/14/87 FR 008		X	Improved		Vacant	Land Value Estimates for Land Table IS3.Land Table IS3 * Factors *					
		Public Improvements		Description Frontage Depth Front Depth Rate %Adj. Reason Value IS3 GEN IND 1 47916 SqFt 2.50 100 119,790 1.10 Total Acres Total Est. Land Value = 119,790							
		X	Dirt Road	<div> <div> <div>Land Improvement Cost Estimates</div> <div> <div>Description</div> <div>Rate</div> <div>CountyMult.</div> <div>Size</div> <div>%Good</div> <div>Cash Value</div> </div> <div>Commercial/Industrial Local Cost Land Improvements</div> <div> <div>Description</div> <div>Rate</div> <div>CountyMult.</div> <div>Size</div> <div>%Good</div> <div>%Arch.Mult</div> <div>Cash Value</div> </div> <div>PC1-ConcretePaving 2.53 1.00 1936.0 60 100 2,939</div> <div>Total Estimated Land Improvements True Cash Value = 2,939</div> </div> </div>							
		X	Gravel Road								
		X	Paved Road								
		X	Storm Sewer								
		X	Sidewalk								
		X	Water								
		X	Sewer								
		X	Electric								
		X	Gas								
		X	Curb								
			Street Lights								
			Standard Utilities								
			Underground Utils.								
Comments/Influences		Topography of Site									
		X	Level								
			Rolling								
			Low								
			High								
			Landscaped								
			Swamp								
			Wooded								
			Pond								
			Waterfront								
			Ravine								
			Wetland								
			Flood Plain								
The Equalizer. Copyright (c) 1999 - 2000. Licensed to: Oakland County Equalization.		Who	When	What	Year	Land Value	Building Value	Assessed Value	Board of Review	Tribunal/ Other	Taxable Value
		034	05/16/2001	Other	2012	59,900	285,540	345,440			315,610C
		069	05/11/1989	Other	2011	83,850	290,540	374,390			307,320C
		MES	01/10/2005	Building	2010	107,820	309,200	417,020			302,190C
					2009	107,820	349,140	456,960			303,100C

Commercial/Industrial Building/Section 1 of 2

Printed on 06/21/2012

Desc. of Bldg/Section: Building 1, Section 1 Calculator Occupancy: Warehouse, Storage										<<<<< Calculator Cost Computations >>>>> Class: C Quality: Average Percent Adj: +0														
Class: C Floor Area: 9,838 Stories Above Grd: 2 Average Sty Hght : 9 Bsmnt Wall Hght :					Construction Cost					Base Rate for Upper Floors = 29.80														
Depr. Table : 2% Effective Age : 32 Physical %Good: 52 Func. %Good : 100 Economic %Good: 100					<input type="checkbox"/> High <input type="checkbox"/> Above Ave. <input type="checkbox"/> Ave. <input checked="" type="checkbox"/> Low					(10) Heating system: Package Heating & Cooling Cost/SqFt: 5.25 100%														
					** ** Calculator Cost Data ** **					Adjusted Square Foot Cost for Upper Floors = 35.05														
					Quality: Average Adj: +0 \$/SqFt:0.00					2 Stories Number of Stories Multiplier: 1.000														
					Heat#1: Package Heating & Cooling 100%					Average Height per Story: 9 Height per Story Multiplier: 0.900														
					Heat#2: Electric, Cable or Baseboard 0%					Ave. Floor Area: 4,919 Perimeter: 221 Perim. Multiplier: 1.016														
Ave. SqFt/Story: 4919					Refined Square Foot Cost for Upper Floors: 32.05																			
Ave. Perimeter: 221					County Multiplier: 1.46, Final Square Foot Cost for Upper Floors = 46.793																			
Has Elevators:					Total Floor Area: 9,838 Base Cost New of Upper Floors = 460,346																			
1962 Year Built Remodeled					9,838 Sq.Ft. of Sprinklers @ 2.43, County Mult.:1.46 Cost New = 34,903																			
Overall Bldg Height					Reproduction/Replacement Cost = 495,249																			
Comments:					*** Basement Info ***					Eff.Age:32 Phy.%Good/Abnr.Phy./Func./Econ./Overall %Good: 52 /100/100/100/52.0														
					Area:					Total Depreciated Cost = 257,529														
					Perimeter:					ECF (E.C.F. Table IS3) 0.760 => TCV of Bldg: 1 = 195,722														
					Type:					Replacement Cost/Floor Area= 50.34 Est. TCV/Floor Area= 19.89														
					Heat:																			
					* Mezzanine Info *																			
					Area #1:																			
					Type #1:																			
					Area #2:																			
					Type #2:																			
					* Sprinkler Info *																			
					Area: 9838																			
					Type: Average																			
(1) Excavation/Site Prep:					(7) Interior:					(11) Electric and Lighting:					(39) Miscellaneous:									
(2) Foundation:					(8) Plumbing:					Outlets:					Fixtures:									
<input checked="" type="checkbox"/> Poured Conc. <input type="checkbox"/> Brick/Stone <input type="checkbox"/> Block					<input type="checkbox"/> Many Above Ave. <input type="checkbox"/> Average Typical <input type="checkbox"/> Few None					<input type="checkbox"/> Few Average Many Unfinished Typical					<input type="checkbox"/> Few Average Many Unfinished Typical									
(3) Frame:					Total Fixtures 3-Piece Baths 2-Piece Baths Shower Stalls Toilets					Urinals Wash Bowls Water Heaters Wash Fountains Water Softeners					Flex Conduit Rigid Conduit Armored Cable Non-Metalic Bus Duct					Incandescent Fluorescent Mercury Sodium Vapor Transformer				
(4) Floor Structure:					(9) Sprinklers:					(13) Roof Structure:					Slope=0									
(5) Floor Cover:					(10) Heating and Cooling:					(14) Roof Cover:														
(6) Ceiling:					<input type="checkbox"/> Gas Oil <input type="checkbox"/> Coal Stoker <input type="checkbox"/> Hand Fired Boiler																			

Desc. of Bldg/Section: Building 1, Section 2 Calculator Occupancy: Warehouse, Storage				<<<<< Calculator Cost Computations >>>>> Class: C Quality: Average Percent Adj: +0					
Class: C Floor Area: 18,948 Stories Above Grd: 1 Average Sty Hght : 18 Bsmnt Wall Hght :		Construction Cost <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">High</td> <td style="width:15%;">Above Ave.</td> <td style="width:15%;">Ave.</td> <td style="width:15%;">X Low</td> </tr> </table>		High	Above Ave.	Ave.	X Low	Base Rate for Upper Floors = 29.80 (10) Heating system: Forced Air Furnace Cost/SqFt: 1.85 100% Adjusted Square Foot Cost for Upper Floors = 31.65	
High	Above Ave.	Ave.	X Low						
Depr. Table : 2% Effective Age : 32 Physical %Good: 52 Func. %Good : 100 Economic %Good: 100		** ** Calculator Cost Data ** ** Quality: Average Adj: +0 \$/SqFt:0.00 Heat#1: Forced Air Furnace 100% Heat#2: Electric, Cable or Baseboard 0% Ave. SqFt/Story: 18948 Ave. Perimeter: 452 Has Elevators:		1 Stories Number of Stories Multiplier: 1.000 Average Height per Story: 18 Height per Story Multiplier: 1.080 Ave. Floor Area: 18,948 Perimeter: 452 Perim. Multiplier: 0.926 Refined Square Foot Cost for Upper Floors: 31.65					
1962 Year Built Remodeled		*** Basement Info *** Area: Perimeter: Type: Heat:		County Multiplier: 1.46, Final Square Foot Cost for Upper Floors = 46.213 Total Floor Area: 18,948 Base Cost New of Upper Floors = 875,638 18,948 Sq.Ft. of Sprinklers @ 2.15, County Mult.:1.46 Cost New = 59,478					
Overall Bldg Height		* Mezzanine Info * Area #1: Type #1: Area #2: Type #2:		Reproduction/Replacement Cost = 935,116 Eff.Age:32 Phy.%Good/Abnr.Phy./Func./Econ./Overall %Good: 52 /100/100/100/52.0 Total Depreciated Cost = 486,260					
Comments:		* Sprinkler Info * Area: 18948 Type: Average		Unit in Place Items Rate Quantity Cnty Arch %Good Depr.Cost LOADING WELL 9.05 549 1.46 1.00 52 3,771 ECF (E.C.F. Table IS3) 0.760 => TCV of Bldg: 2 = 372,424 Replacement Cost/Floor Area= 49.73 Est. TCV/Floor Area= 19.66					

(1) Excavation/Site Prep:			(7) Interior:			(11) Electric and Lighting:			(39) Miscellaneous:		
(2) Foundation:			(8) Plumbing:			Outlets:			Fixtures:		
X	Poured Conc.	Brick/Stone	Block	Many Above Ave.	Average Typical	Few None	Few Average	Many Unfinished Typical	Few Average	Many Unfinished Typical	
(3) Frame:				Total Fixtures 3-Piece Baths 2-Piece Baths Shower Stalls Toilets		Urinals Wash Bowls Water Heaters Wash Fountains Water Softeners		Flex Conduit Rigid Conduit Armored Cable Non-Metallic Bus Duct		Incandescent Fluorescent Mercury Sodium Vapor Transformer	
(4) Floor Structure:				(9) Sprinklers:			(13) Roof Structure:			(40) Exterior Wall:	
(5) Floor Cover:				(10) Heating and Cooling:			Slope=0			Thickness Bsmnt Insul.	
(6) Ceiling:				Gas Oil	Coal Stoker	Hand Fired Boiler	(14) Roof Cover:				

Grantor	Grantee	Sale Price	Sale Date	Inst Type	Terms of Sale	Liber #Page	Verified by	Pront Trans			
Property Address		Class: 201 Bus Imp	Zoning: II	Building Permit(s)		Date	Number	Status			
1232 MORSE AVE		School: 230 Royal Oak City Schls									
Owner's Name/Address		P.R.E. 0%									
TLD ROCHLIN LLC MORRIS ROCHLIN TRUST 1177 WHITE PINE CT INTERLOCHEN MI 49643		ITOnly: POST									
		2012 Est TCV 544,193 TCV/TFA: 22.78									
Description		X Improved	Vacant	Land Value Estimates for Land Table IS3.Land Table IS3							
T1N, R11E, SEC 22 LINCOLNSHIRE SUB LOTS 26 & PART OF LOTS 27 & 28, ALSO PART OF LOTS 4 & 5 OF 'ASSESSOR'S PLAT NO 27', ALL DESC AS BEG AT PT ON E LINE OF LOT 5 DIST NWLY 136.8 FT FROM MOST SLY LOT CORNER, TH N 31-30-00 W 329.25 FT, TH ALG CURVE CONCAVE TO NE, RAD 733.28 FT, CHORD BEARS N 08-17-10 W 161.47 FT, DIST OF 161.82 FT, TH N 01-57-50 W 175.35 FT TO PT ON N LINE OF LOT 4 LOCELY 2.55 FT FROM NW LOT COR, TH ELY TO NE LOT COR, TH SLY TO NE COR OF LOT 5, TH SLY & SELY ALG E LOT LINETO BEG, ALSO W 1/2 OF VAC MORSE AVE ADJ TO LOT 26, EXC THOSE PARTS OF SD LOTS 27 & 28 & SD LOT 4 LYING N OF LINE DESC AS BEG AT PT DIST S 01-33-35 E 489.30 FT FROM NE COR OF LOT 12 OF 'LINCOLNSIDE SUB', TH S 88-18-18 W 58.91 FT, TH S 01-41-42 E 0.81 FT, TH S 88-18-18 W 58.25 FT TO END 10/14/87 FR 008		Public Improvements		* Factors *							
		Dirt Road Gravel Road X Paved Road Storm Sewer X Sidewalk X Water X Sewer X Electric X Gas X Curb Street Lights Standard Utilities Underground Utils.		Description IS3	Frontage GEN IND 1	Depth 43124 SqFt	Front 2.50	Depth 100	Rate Adj.	Reason	Value 107,810
		Topography of Site		0.99 Total Acres Total Est. Land Value = 107,810							
Comments/Influences		X Level									
		Rolling									
		Low									
		High									
		Landscaped									
		Swamp									
		Wooded									
		Pond									
		Waterfront									
		Ravine									
		Wetland									
		Flood Plain									
		Who	When	What	Year	Land Value	Building Value	Assessed Value	Board of Review	Tribunal/Other	Taxable Value
		034	05/16/2001	Other	2012	53,910	218,190	272,100			234,540C
		099	02/26/1990	Other	2011	75,470	222,150	297,620			228,380C
		/	/	SelectAc	2010	97,000	232,320	329,320			224,570C
					2009	97,000	262,720	359,720			225,250C

Commercial/Industrial Building/Section 1 of 1

Printed on 06/21/2012

Desc. of Bldg/Section: Building 1, Section 1 Calculator Occupancy: Warehouse, Storage										<<<<< Calculator Cost Computations >>>>> Class: C Quality: Average Percent Adj: +0																											
Class: C Floor Area: 23,886 Stories Above Grd: 1 Average Sty Hght : 18 Bsmnt Wall Hght :					Construction Cost					Base Rate for Upper Floors = 29.80																											
					<table border="1"><tr><td>High</td><td>Above Ave.</td><td>Ave.</td><td>X Low</td></tr></table>					High	Above Ave.	Ave.	X Low	<table border="1"><tr><td colspan="2">** ** Calculator Cost Data ** **</td></tr><tr><td>Quality: Average</td><td>Adj: +0 \$/SqFt:0.00</td></tr><tr><td>Heat#1: Space Heaters, Gas with Fan</td><td>95%</td></tr><tr><td>Heat#2: Package Heating & Cooling</td><td>5%</td></tr><tr><td>Ave. SqFt/Story: 23886</td><td></td></tr><tr><td>Ave. Perimeter: 692</td><td></td></tr><tr><td>Has Elevators:</td><td></td></tr></table>										** ** Calculator Cost Data ** **		Quality: Average	Adj: +0 \$/SqFt:0.00	Heat#1: Space Heaters, Gas with Fan	95%	Heat#2: Package Heating & Cooling	5%	Ave. SqFt/Story: 23886		Ave. Perimeter: 692		Has Elevators:	
High	Above Ave.	Ave.	X Low																																		
** ** Calculator Cost Data ** **																																					
Quality: Average	Adj: +0 \$/SqFt:0.00																																				
Heat#1: Space Heaters, Gas with Fan	95%																																				
Heat#2: Package Heating & Cooling	5%																																				
Ave. SqFt/Story: 23886																																					
Ave. Perimeter: 692																																					
Has Elevators:																																					
Depr. Table : 2% Effective Age : 34 Physical %Good: 50 Func. %Good : 100 Economic %Good: 100										(10) Heating system: Space Heaters, Gas with Fan Cost/SqFt: 0.00 95% (10) Heating system: Package Heating & Cooling Cost/SqFt: 5.25 5% Combined Heating System adjustment: 0.26 100%																											
1962 Year Built Remodeled										Adjusted Square Foot Cost for Upper Floors = 30.06																											
Overall Bldg Height					*** Basement Info *** Area: Perimeter: Type: Heat:					1 Stories Number of Stories Multiplier: 1.000 Average Height per Story: 18 Height per Story Multiplier: 1.080 Ave. Floor Area: 23,886 Perimeter: 692 Perim. Multiplier: 0.948 Refined Square Foot Cost for Upper Floors: 30.78																											
Comments:					* Mezzanine Info * Area #1: Type #1: Area #2: Type #2:					County Multiplier: 1.46, Final Square Foot Cost for Upper Floors = 44.938																											
					* Sprinkler Info * Area: 23886 Type: Average					Total Floor Area: 23,886 Base Cost New of Upper Floors = 1,073,398 23,886 Sq.Ft. of Sprinklers @ 2.15, County Mult.:1.46 Cost New = 74,978 Reproduction/Replacement Cost = 1,148,376 Eff.Age:34 Phy.%Good/Abnr.Phy./Func./Econ./Overall %Good: 50 /100/100/100/50.0 Total Depreciated Cost = 574,188 ECF (E.C.F. Table IS3) 0.760 => TCV of Bldg: 1 = 436,383 Replacement Cost/Floor Area= 48.08 Est. TCV/Floor Area= 18.27																											
(1) Excavation/Site Prep:					(7) Interior:					(11) Electric and Lighting:					(39) Miscellaneous:																						
(2) Foundation:					(8) Plumbing:					Outlets: Fixtures:																											
X Poured Conc. Brick/Stone Block					Many Above Ave. Average Typical Few None					Few Average Many Unfinished Typical																											
(3) Frame:					Total Fixtures 3-Piece Baths 2-Piece Baths Shower Stalls Toilets Urinals Wash Bowls Water Heaters Wash Fountains Water Softeners					Flex Conduit Rigid Conduit Armored Cable Non-Metallic Bus Duct					Incandescent Fluorescent Mercury Sodium Vapor Transformer																						
(4) Floor Structure:					(9) Sprinklers:					(13) Roof Structure: Slope=0					(40) Exterior Wall:																						
(5) Floor Cover:					(10) Heating and Cooling:					(14) Roof Cover:					Thickness Bsmnt Insul.																						
(6) Ceiling:					Gas Oil Coal Stoker Hand Fired Boiler																																

FIRE DEPARTMENT RECORDS



Lansing
3340 Ranger Road
Lansing, MI 48906
f: 877-884-6775
t: 517-321-3331

Detroit
4080 W. 11 Mile Rd
Berkley, MI 48072
f: 877-884-6775
t: 248-336-9988

Grand Rapids
820 Monroe Avenue, NW
Suite 433
Grand Rapids, MI 49503
f: 877-884-6775
t: 616-285-8857

VIA FACSIMILE (248) 246-3805

January 8, 2014

FOIA Coordinator
City of Royal Oak Fire Department
215 East Sixth Street
Royal Oak, MI 48067

FOIA Coordinator:

Please accept this Freedom of Information Act request to review available information in your files relative to the following sites:

- **1210, 1220, and 1232 Morse Ave, Royal Oak (Parcel ID's: 63-72-25-22-377-029, -030, -031)**
- **620 East Harrison Ave, Royal Oak (Parcel ID: 63-72-25-22-334-001)**

Information we are interested in obtaining includes:

- Records of (non-medical) emergency responses or HAZMAT responses
- Illegal dumping
- Historic records of USTs or ASTs
- Fires, chemical spills, chemical use or storage

Please contact me at (517)321-3331 or Nelson@pmenv.com when the files are available for review, or if you have any questions regarding this request. Thank you.

Sincerely,
PM Environmental, Inc.

Alex Nelson
Research Consultant
3340 Ranger Road
Lansing, MI 48906

HEALTH DEPARTMENT RECORDS



Detroit
4080 W. 11 Mile Rd
Berkley, MI 48072
f: 877-884-6775
t: 248-336-9988

Grand Rapids
820 Monroe Avenue, NW
Suite 433
Grand Rapids, MI 49503
f: 877-884-6775
t: 616-285-8857

Lansing
3340 Ranger Road
Lansing, MI 48906
f: 877-884-6775
t: 517-321-3331

VIA FACSIMILE (248) 452-9758

January 8, 2014

FOIA Coordinator
Environmental Health Services
Oakland County Health Division
County Complex
1200 North Telegraph Road
Pontiac, MI 48341

Dear FOIA Coordinator:

Please accept this request for copies of information in your files relative to the following site:

- **1210, 1220, and 1232 Morse Ave, Royal Oak (Parcel ID's: 63-72-25-22-377-029, -030, -031)**
- **620 East Harrison Ave, Royal Oak (Parcel ID: 63-72-25-22-334-001)**

Information we are interested in obtaining includes:

- Results of water quality testing, conducted on any Type II water wells located on the property
- Well log and septic information
- Individual files that are available for the site which may include records of health department inspections, and violations
- Any records of dry cleaning operations at the site
- Any indications of USTs or ASTs located on the site.

Please contact us regarding the availability of information and potential fees associated with reproduction, *prior to reproducing any material*. We anticipate that a sanitarian will answer these questions only to their best of his/her knowledge without the need for extraneous research. We would appreciate any assistance in receiving information as soon as possible due to our scheduled deadlines. We do not need any food related records.

Please call me at 517-321-3331 or email me at Nelson@pmenv.com if you have any questions or concerns regarding this request. Please fax your response to my attention at 877-884-6775 or, if it is too large, mail to the address below. Thank you.

Sincerely,
PM Environmental, Inc.


Alex Nelson
Research Consultant
3340 Ranger Road
Lansing, MI 48906



HEALTH DIVISION

Department of Health & Human Services

oakgov.com/health

January 9, 2014

L. BROOKS PATTERSON, OAKLAND COUNTY EXECUTIVE

Kathleen Forzley, RS, MPA, Manager
HEALTH DIVISION

ALEX NELSON
PM ENVIRONMENTAL INC
3340 RANGER ROAD
LANSING MI 48906

**RE: FOIA REQUESTS 1210, 1220, AND 1232 MORSE AVE 620 EAST HARRISON AVE
ROYAL OAK, OAKLAND COUNTY, MI PARCEL #S: 63-72-25-22-377-029, 63-72-25-
22-377-030, 63-72-25-22-377-031, AND 63-72-25-22-334-001**

Dear Ms. Nelson:

Your request is approved in part and denied in part. Per your request and a review of our records, the Oakland County Health Division (OCHD) has no information regarding on-site sewage disposal permits, water sample results, Type II files, well logs, or water well permits for the captioned properties.

At this time OCHD is not conducting ongoing monitoring of any groundwater pollutants for the captioned properties, nor are there files for historical monitoring on these sites. This Division does not maintain files for LUSTs, ASTs or USTs for these sites. OCHD does not maintain files for dry cleaning operations on these sites.

Your request for information regarding "...health department inspections, and violations..." is denied for the reason that it fails to meet conditions of MCL 15.233(1) of the Freedom of Information Act, Act 442 of 1976 (FOIA), in that it does not describe a public record sufficiently to enable the public body to find the public record.

If you wish to modify your request by providing a complete list of specific concerns and properties, with date ranges for the information you desire, OCHD will provide available information in compliance with the FOIA.

It is recommended that you contact the Michigan Department of Environmental Quality as that agency has regulatory authority over certain environmental pollutants and monitoring activities. Similarly, it is advised that you contact the local water supply and sewer agencies as they may have authority over certain aspects of the captioned properties. If you have any questions, please contact this Division at (248) 858-1312.

YOUR FURTHER LEGAL RIGHTS

To the extent that this response, in your opinion, constitutes a denial of your FOIA rights under the Michigan Freedom of Information Act, your statutory remedies under MCL 15.240, as required to be provided to you by the statute, are as follows:

MCL 15.240

(1) If a public body makes a final determination to deny all or a portion of a request, the

a:\ehs\1210 Morse doc foia

NORTH OAKLAND HEALTH CENTER
1200 NORTH TELEGRAPH ROAD
PONTIAC MICHIGAN 48341-0432
General Information 248-858-1280

SOUTH OAKLAND HEALTH CENTER
27725 GREENFIELD ROAD
SOUTHFIELD MICHIGAN 48076-3663
General Information 248-424-7000

requesting person may do 1 of the following at his or her option:

- (a) Submit to L. Brooks Patterson, Oakland County Executive, a written appeal that specifically states the word "appeal" and identifies the reason or reasons for reversal of the denial.
 - (b) Commence an action in the circuit court to compel the public body's disclosure of the public records within 180 days after a public body's final determination to deny the request.
- (2) Within 10 days after receiving a written appeal pursuant to subsection (1)(a), the head of the public body shall do one of the following:
- (a) Reverse the disclosure denial.
 - (b) Issue a written notice to the requesting person upholding the disclosure denial.
 - (c) Reverse the disclosure denial in part and issue a written notice to the requesting person upholding the disclosure denial in part.
 - (d) Under unusual circumstances, issue a notice extending for not more than 10 business days the period during which the head of the public body shall respond to the written appeal. The head of the public body shall not issue more than one notice of extension for a particular written appeal.
- (3) A board or commission that is the head of a public body is not considered to have received a written appeal under subsection (2) until the first regularly scheduled meeting of that board or commission following submission of the written appeal under subsection (1)(a). If the head of the public body fails to respond to a written appeal pursuant to subsection (2), or if the head of the public body upholds all or a portion of the disclosure denial that is the subject of the written appeal, the requesting person may seek judicial review of the nondisclosure by commencing an action in the circuit court under subsection (1)(b).
- (4) In an action commenced under subsection (1)(b), a court that determines a public record is not exempt from disclosure shall order the public body to cease withholding or to produce all or a portion of a public record wrongfully withheld, regardless of the location of the public record. The circuit court of the county in which the complainant resides or has his or her principal place of business, or the circuit court for the county in which the public record or an office of the public body is located has venue over the action. The court shall determine the matter de novo and the burden is on the public body to sustain its denial. The court, on its own motion, may view the public record in controversy in private before reaching a decision. Failure to comply with an order of the court may be punished as contempt of court.
- (5) An action commenced under this section and appeal from an action commenced under this section shall be assigned for hearing and trial or for argument at the earliest practicable date and expedited in every way.
- (6) If a person asserting the right to inspect, copy, or to receive a copy of all or a portion of a public record prevails in an action commenced under to this section, the court shall award reasonable attorneys' fees, costs, and disbursements. If the person or the public body prevails in part, the court may, in its discretion, award all or an appropriate portion of reasonable attorneys' fees, costs, and disbursements. The award shall be assessed against the public body liable for damages under subsection.
- (7) If the circuit court determines in an action commenced under this section that the public

body has arbitrarily and capriciously violated this act by refusal or delay in disclosing or providing copies of a public record, the court shall award, in addition to any actual or compensatory damages, punitive damages in the amount of \$500.00 to the person seeking the right to inspect or receive a copy of a public record. The damages shall not be assessed against an individual, but shall be assessed against the next succeeding public body, that is not an individual and that kept or maintained the public record as a part of its public function.

Sincerely,

**OAKLAND COUNTY HEALTH DIVISION
Department of Health and Human Services**

Richard C. Peresky R.E.H.S., M.S.

Richard C. Peresky, R.E.H.S., M.S.
Senior Public Health Sanitarian
Environmental Health Services

cc: Anthony Drautz, R.S., M.S.A., Administrator, Environmental Health Services

Appendix C



PREVIOUS SITE INVESTIGATION

September 6, 2012

Mr. Dan Hunter
Oakland County
2100 Pontiac Lake Road
Pontiac, Michigan 48328-2735

**Re: Phase I Environmental Site Assessment of the Warehouse Property
Located at 1210-1232 Morse Avenue and 620 East Harrison Avenue
Royal Oak, Michigan
PM Environmental, Inc. Project No. 02-5771-0**

Dear Mr. Hunter:

PM Environmental, Incorporated (PM) has completed the Phase I Environmental Site Assessment (ESA) of the above referenced property. This Phase I ESA was conducted in accordance with (1) the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries {(AAI), 40 CFR Part 312} and (2) guidelines established by the American Society for Testing and Materials (ASTM) in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process / Designation E 1527-05* (ASTM Standard Practice E 1527-05).

The Phase I ESA for the above referenced property represents the product of PM's professional expertise and judgment in the environmental consulting industry, and it is reasonable for **OAKLAND COUNTY AND ROBERT WOLFSON** to rely on PM's Phase I ESA report.

If you have any questions related to this report please do not hesitate to contact our office at (248) 336-9988.

Sincerely,
PM ENVIRONMENTAL, INC.



Bryant J. Hengst
Staff Consultant



Michael T. Kulka, P.E.
Principal

EXECUTIVE SUMMARY

PM Environmental, Inc., (PM) was retained to conduct a Phase I Environmental Site Assessment (ESA) of the Warehouse Property located at 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Oakland County, Michigan (hereafter referred to as the "subject property"). This Phase I ESA was conducted in accordance with (1) the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries {(AAI), 40 CFR Part 312} and (2) guidelines established by the American Society for Testing and Materials (ASTM) in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process / Designation E 1527-05* (ASTM Standard Practice E 1527-05).

THIS REPORT WAS PREPARED FOR THE EXCLUSIVE USE OF OAKLAND COUNTY AND ROBERT WOLFSON, EACH OF WHOM MAY RELY ON THE REPORT'S CONTENTS.

Item	Comments
Number of Parcels and Acreage	Four parcels totaling approximately 4.66 acres
Number of Building(s) and Square Footage	A 86,964 square foot distribution/warehouse building
Current Property Use	Operations consist of sorting and packing mail with limited printing. The northern and southern portions of the building are currently unoccupied and therefore there are no current business operations.

Reasonably ascertainable records for the subject property extended back to approximately 1940. Data failure occurred prior to that date. Based on the data failure prior to 1940, PM identified a significant data gap during the completion of this Phase I ESA. Refer to the REC bullets below for additional information.

1210-1232 Morse Avenue

Standard and other historical sources were able to document that the property was initially developed with a fuel oil distribution operation in the northern portion of the property by 1940. This operation included an office building, an outbuilding, and seven fuel oil ASTs, which were removed by 1974. The central portion of the property was utilized for exterior coal storage between at least 1950 and 1963. The central portion of the current building (1220 Morse Avenue) was constructed in 1962, with additions constructed to the northern (1210 Morse Avenue) and southern (1232 Morse Avenue) portions by 1974. The historical occupants of the current building are as follows:

- 1210 Morse Avenue (northern portion): This portion of the building is currently vacant and was previously occupied by lumber distributor and custom woodworking company between at least 1995 and 2003. No exterior lumber storage was observed on the subject property through review of historical aerial photographs and Sanborn maps. The previous occupants prior to 1995 could not be determined through review of historical sources; however, it is PM's professional opinion that this portion of the building was likely occupied by operations listed under 1220 Morse Avenue. Refer to the paragraph below for additional information.

- 1220 Morse Avenue (central portion): This portion of the building was previously occupied by a foam manufacturer between at least 1964 and 1980, a plastic injection molding company in at least 1989, and has been occupied by numerous distribution/warehouse operations since 1986.
- 1232 Morse Avenue (southern portion): This portion of the building is currently vacant and was previously occupied by manufacturing operations between at least 1982 and 1990, and distribution/warehouse operations between at least 1995 and 2006. The previous occupants prior to 1982 could not be determined through review of historical sources; however, it is PM's professional opinion that this portion of the building was likely occupied by operations listed under 1220 Morse Avenue. Refer to the paragraph above for additional information.

620 East Harrison Avenue

Standard and other historical sources were able to document that the property was initially developed with a residential dwelling and two commercial buildings (1113 Morse Avenue and 1209 Morse Avenue) between 1940 and 1949. The commercial building identified as 1113 Morse was demolished in the 1950s, when five road oil ASTs were installed in the same area in the central portion of the property. The dwelling was demolished in the 1960s. The ASTs and commercial building identified as 1209 Morse were demolished by 1988. The property has contained a surface parking lot since at least 1980. The historical occupants of the former buildings are as follows:

- The occupants of the 1113 Morse Avenue building could not be determined through review of historical sources; however, based on the short-term operations (i.e. between the 1940s and 1952), PM has not identified the unknown operations as a REC.
- The 1209 Morse Avenue building was previously occupied by a construction company between at least 1950 and 1955, and a machine shop between at least 1959 and 1962. The occupants from 1963 to demolition (between 1968 and 1974) could not be determined through review of historical sources; however, based on the layout of the building and the last documented use, the building was likely occupied by similar machine shop operations to the date of demolition.

Current Recognized Environmental Conditions

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of the Warehouse Property located at 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Oakland County, Michigan, the property. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of recognized environmental conditions connected with the property except the following:

- Review of historical records indicates that the subject property (1210-1232 Morse Avenue) formerly contained a total of 11 fuel oil ASTs in the northern portion of the property between at least 1940 and 1974. Additionally, PM was unable to obtain specific information about the initial construction date of the fuel oil distribution operation in the northern portion of the property (1210-1232 Morse Avenue) prior to 1940. Based upon information obtained from other sources during this Phase I ESA, this data gap is

significant and represents a REC. Additionally, based on the documented long-term use of large fuel oil ASTs, the potential exists that a release has occurred and impacted the subsurface in this area.

- The central portion of the subject property (1210-1232 Morse Avenue) was utilized for exterior coal storage between at least 1950 and 1961. Based on the long-term exterior coal storage, the potential exists for contaminants to have leached from the coal stored on-site and impacted the subsurface in this area.
- The central portion of the current subject building was previously occupied by a foam manufacturer between at least 1964 and 1980. Historical interior waste streams associated with the former manufacturing operations would have consisted of general hazardous substances and/or petroleum products. The historical waste management practices associated with the former manufacturing operations is unknown and may be a source of subsurface contamination in this area.
- Review of historical records indicates that the subject property (620 East Harrison Avenue) formerly contained five road oil ASTs in the northern portion of the property between at least 1952 and 1968. Based on the documented long-term use of large road oil ASTs, the potential exists that a release of fuel oil has occurred and impacted the subsurface in this area.
- The subject property (620 East Harrison Avenue) contained a former commercial building that was previously occupied a machine shop between at least 1959 and 1962, and potentially to 1974. Historical interior waste streams associated with the former machine shop operations would have included hazardous substances and/or petroleum products. Based on the possible long-term machine shop operations, the potential exists that a release has occurred and impacted the subsurface in this area.

The following adjoining and/or nearby RECs have been identified:

- The southeast adjoining property, identified as 1300 Batavia Avenue, was previously occupied by numerous manufacturing operations and machine shops between at least 1945 and 2001. A Category N BEA was submitted for this property in November 2001. Historical interior waste streams associated with the former manufacturing and machine shop operations would have included hazardous substances and/or petroleum products. Based on documented contamination, the long-term manufacturing and machine shop operations, and close proximity to the subject property (approximately 50-feet and across Morse Avenue), the potential exists that contamination has migrated onto the subject property.
- The southeast adjoining property, identified as 622 Macwilliams Lane, was previously occupied by a building contractor warehouse and supply yard between at least 1940 and 1980. According to historical Sanborn maps, the former commercial buildings were utilized as a machine shop, a welding shop, and for paint storage, equipment storage, and other miscellaneous storage. Historical interior waste streams associated with the former warehouse and supply yard operations would have included hazardous substances and/or petroleum products. Based on the long-term warehouse and supply yard operations, and close proximity to the subject property (i.e. directly adjoining), the potential exists that a release has occurred and migrated onto the subject property.

- The west adjoining property previously contained railroad spurs prior to 1931, which were removed by 2005. Exterior storage of unknown materials was observed in the northern portion of the property between at least 1974 and 2000. Based on the long-term exterior storage of unknown materials and the close proximity to the subject property (i.e. directly adjoining), the potential exists for contaminants to have leached from the unknown materials stored on-site and migrated onto the subject property.

Historical Recognized Environmental Conditions

A historical REC, as defined in the ASTM Standard, is an environmental condition that in the past would have been identified as a REC, but has been adequately addressed and therefore no longer represents a REC. PM has not identified any historical RECs in association with the subject property.

De Minimis Conditions

De minimis conditions are conditions that generally do not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies. Conditions determined to be de minimis are not recognized environmental conditions. No de minimis conditions were identified during completion of this report.

Recommendations

These RECs have been brought to the attention of the client within the requirements of the ASTM Standard Designation E-1527-05. Parts 201 and 213 of the 1994 Michigan Natural Resources Environmental Protection Act (NREPA) provide liability protection for off-site migration of contamination to the subject property.

Verification of the presence or absence of contaminants potentially associated with these RECs may be determined through a Phase II investigation at the request of the client. Cost/risk analysis decisions associated with further investigation of these conditions are the decision of the client.

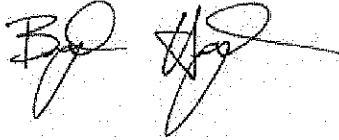
The summary presented above is general in nature and should not be considered apart from the entire text of the report, which contains the qualifications, considerations and subject property details mentioned herein. Details of findings and conclusions are elaborated upon in this report.

Phase I ESA of the Warehouse Property
Located at 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Michigan
PM Project No. 02-5771-0; September 6, 2012

This report has been reviewed for its completeness and accuracy. Please feel free to contact our office at (800) 313-2966 to discuss this report.

REPORT PREPARED BY:

PM Environmental, Inc.



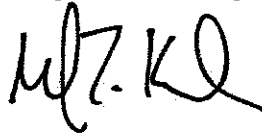
Bryant J. Hengst
Staff Consultant

REPORT REVIEWED BY:

PM Environmental, Inc.



Beth Bailey
Manager of Due Diligence Services



Michael T. Kulka, P.E.
Principal

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FIGURES

Figure 1: Site Location Map

Figure 2: Generalized Diagram of the Subject Property and Surrounding Area

APPENDICES

Appendix A: Property Photographs from Site Reconnaissance

Appendix B: Correspondence and Supporting Documentation

Appendix C: Previous Site Investigations

Appendix D: Regulatory Database and File Review Correspondence

Appendix E: Professional Resumes

Appendix F: Acronyms and Terminology, Scope of Work, ASTM Reference Document,
and User's Continuing Obligations under CERCLA

1.0 INTRODUCTION

This Phase I ESA was conducted in accordance with (1) the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries {(AAI), 40 CFR Part 312} and (2) guidelines established by the American Society for Testing and Materials (ASTM) in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process / Designation E 1527-05* (ASTM Standard Practice E 1527-05).

THIS REPORT WAS PREPARED FOR THE EXCLUSIVE USE OF OAKLAND COUNTY, ROBERT WOLFSON, EACH OF WHOM MAY RELY ON THE REPORT'S CONTENTS.

PM acknowledges that these parties may rely on the contents and conclusions presented in this report. Unless stated otherwise in writing, PM makes no other warranty, representation, or extension of reliance upon the findings of this report to any other entity or third party.

1.1: Property Overview

Subject Property Location/Address	1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Oakland County, Michigan
Number of Parcels and Acreage	Four parcels totaling approximately 4.66 acres
Number of Building(s) and Square Footage	A 86,964 square foot distribution/warehouse building
Current Property Use	Operations consist of sorting and packing mail with limited printing. The northern and southern portions of the building are currently unoccupied and therefore there are no current business operations.
Current Zoning	Mixed Use – Residential/Office/Institutional

The subject property location is depicted on Figure 1, Site Location Map. A diagram of the subject property and adjoining properties is included as Figure 2, Generalized Diagram of the Subject Property and Surrounding Area. Photographs taken during the site reconnaissance are included in Appendix A.

1.2: Purpose and Scope of Services

The purpose of this Phase I ESA was to evaluate the current and historical conditions of the subject property in an effort to identify *recognized environmental conditions* (RECs) and *historical recognized environmental conditions* (HRECs) in connection with the subject property. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs and HRECs in connection with the subject property.

Acronyms and terms used in this report are described in Appendix F. Additionally, PM's scope of services is included in Appendix F.

1.3: Significant Assumptions

Pursuant to ASTM Standard Practice E 1527-05, PM assumes that the information provided by all sources and parties, including the User, is accurate and complete, except where obvious inconsistencies or inaccuracies were identified.

1.4: Limitations, Deviations, and Special Terms and Conditions

There are no deviations from the ASTM Standard. Non-ASTM Scope considerations are included in Section 10.0. Any physical limitations identified during the completion of this report are referenced in Section 7.0.

Due to changing environmental regulatory conditions and potential on-site or adjacent activities occurring after this assessment, the client may not presume the continuing applicability to the subject property of the conclusions in this assessment for more than 180 days after the report's issuance date, per ASTM Standard Practice E 1527-05.

To the best of PM's knowledge, no special terms or conditions apply to the preparation of this Phase I ESA that would deviate the scope of work from the ASTM Standard Practice E 1527-05.

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small business Liability Relief and Brownfield's Revitalization Act of 2001 (the "Brownfield's Amendments") (if desired), the User must provide certain information (if available) included on the User Questionnaire to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete. PM provided the User with a copy of the User Questionnaire, which was not returned to PM within the time constraints of this report. Therefore, the lack of a completed User questionnaire is considered a limitation of this report, and, as noted above, could result in a determination that all appropriate inquiry has not been completed.

PM was not provided with a copy of the recorded land title records for subject property by the client and was not requested to complete a title search. Therefore, PM cannot comment on any potential relevant information that may have been obtained through review of these records.

2.0 USER PROVIDED INFORMATION

The ASTM Standard defines a User as "the party seeking to use Practice E 1527 to complete an environmental site assessment. A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager." The User has specific obligations for completing a successful application of this practice as outlined in Section 6 of the ASTM Standard Practice E 1527-05.

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfield's Revitalization Act of 2001 (the "Brownfield's Amendments") (if desired), the User must provide certain information (if available) identified in the User Questionnaire to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

PM provided the User with a copy of the User Questionnaire, which was not returned to PM within the time constraints of this report. Therefore, the lack of a completed User questionnaire is considered a limitation of this report, and, as noted above, could result in a determination that all appropriate inquiry has not been completed. Based upon the information obtained during the completion of his report through other reasonably ascertainable sources, the lack of this questionnaire is not likely to affect the conclusions of this report.

2.1: Recorded Land Title Records

PM requested reasonably ascertainable recorded land title records for the subject property from the User. However, PM did not receive any title records from the User within the time constraints of this report. Additionally, PM was not requested to complete a title search by the User.

2.2: Reason for Performing this Phase I ESA

According to the User, this Phase I ESA was conducted as part of environmental due diligence related to purchasing the subject property.

3.0 PHYSICAL SETTING

PHYSICAL SETTING INFORMATION FOR THE SUBJECT PROPERTY AND SURROUNDING AREA		SOURCE
Topography: Refer to Figure 1 for an excerpt of the Topographic Map		
Site Elevation	640-650 feet	United States Geological Survey Division (U.S.G.S.) 7.5-Minute Topographic Map of the Royal Oak, Michigan Quadrangle, 1996
Topographic Gradient	East	
Closest Surface Water	Red Run Creek, located approximately 2.25 miles northeast of the subject property	
General Soil Characteristics: Refer to Appendix B for a copy of the soil survey map and soil type descriptions		
Soil Type	Thetford loamy fine sand, 0 to 4 percent slopes	United States Department of Agriculture, Soil Survey of Oakland County, Michigan (published March 1982)
Description	Consists of loamy fine sand to a depth of 9.0 inches below ground surface (bgs), fine sand to 49.0 inches bgs, underlain by loamy fine sand to 60.0 inches bgs. Available moisture capacity is moderate, permeability is moderately rapid, and surface runoff is very slow. The corrosivity for steel is low, but moderate for concrete.	
Soil Type	Urban land, 0 to 5 percent slopes	
Description	These areas are covered with airports, shopping centers, parking lots, large buildings, streets, or sidewalks. The natural soil cannot be observed. Individual areas range from 20 to 150 acres in size.	
Area Specific Geology/Hydrogeology Characteristics:		
Geology	Consists of silty sand to a depth of 14.0 feet bgs underlain by silty clay to 15.0 bgs, the maximum depth explored.	Previous site investigations for a nearby properties
Hydrogeology	Discontinuous shallow groundwater was observed between 3.0-feet and 6.0 feet bgs with no documented flow direction.	
Oil and Gas Wells:		
Current Oil and Gas Wells on Subject Property	None identified	MDEQ Geologic Survey Division (GSD) web site

PHYSICAL SETTING INFORMATION FOR THE SUBJECT PROPERTY AND SURROUNDING AREA		SOURCE
Historical Oil and Gas Wells On Subject property	None identified	

4.0 RECORDS REVIEW

PM reviewed reasonably ascertainable records to identify obvious uses of the subject property from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. Reasonably ascertainable records reviewed as part of this Phase I ESA documented the use of the property back to 1940. Data failure occurred prior to that date. PM has identified this data failure as a significant data gap. Refer to Sections 6.0 and 11.1 for additional information.

4.1: Aerial Photographs and Sanborn Maps

PM reviewed reasonably ascertainable aerial photographs for the subject property area. The sources and years reviewed are identified in the table below. Relevant aerial photographs are included in Appendix B.

PM reviewed reasonably ascertainable Sanborn Fire Insurance Maps for the subject property area, which were obtained from EDR. The sources and years reviewed are identified in the table below. Relevant Sanborn Maps are included in Appendix B.

The following tables summarize the sources reviewed and the information obtained about the subject property from these sources. For ease of reference, two tables were completed for the eastern and western portions of the subject property. Information obtained about the adjoining properties from these sources is summarized in Section 8.0.

Aerial and Sanborn Summary for 1210-1232 Morse Avenue

Year and Source	Summary of Information
1931 Sanborn Map (EDR)	The majority of the subject property is not depicted in this Sanborn map; however, no structures or buildings are present in the limited northern portion of the property that is visible in this Sanborn map.
1940 Aerial (MSU)	The northeastern portion of the property appears to be developed; however, due to the scale and resolution, more definitive details could not be determined.
1949 Aerial (WSU)	Contains two buildings in the northeastern portion of the property, which are associated with seven ASTs located directly to the south of the buildings. The remaining portions of the subject property contain undeveloped land.
1950 Sanborn Map (EDR)	The northeastern most building is an office building. An outbuilding, a fuel pump, and seven fuel oil ASTs are located directly to the south of the office building. A coal shed is located in the central-eastern portion of the property, associated with a coal yard that is located in the central portion.
1952 Aerial (WSU)	Four previously identified ASTs have been removed. Four additional fuel oil ASTs appear to the west of the existing ASTs. The remaining portions of the property appear similar to the previous Sanborn year.
1953 Sanborn Map (EDR)	The coal yard is no longer labeled. The remaining portions of the property appear similar to the previous aerial year.

Phase I ESA of the Warehouse Property
Located at 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Michigan
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Year and Source	Summary of Information
1957 Aerial (WSU)	The coal yard appears to be active in the central portion of the property. The remaining portions of the property appear similar to the previous Sanborn year.
1961 Aerial (MSU)	Similar to the previous aerial year.
1963 Aerial (Oakland Co.)	The coal yard is no longer active. The central portion of the current building has been constructed in the central portion of the property. The remaining portions of the property appear similar to the previous aerial year.
1967 Aerial (MSU)	The southern portion of the current building has been constructed in the southern portion of the property. The remaining portions of the property appear similar to the previous aerial year.
1968 Sanborn Map (EDR)	The two original buildings and associated ASTs have been removed. The northern portion of the current building has been constructed in the northern portion of the property and appears to be occupied by a factory, which is similar to the current layout observed during PM's site reconnaissance.
1974 Aerial (Oakland Co.)	Similar to the previous Sanborn year.
1980 Aerial (Oakland Co.)	Similar to the previous aerial year.
1990 Aerial (Oakland Co.)	Similar to the previous aerial year.
1997 Aerial (Oakland Co.)	Similar to the previous aerial year.
2000 Aerial (Oakland Co.)	Similar to the previous aerial year.
2005 Aerial (Oakland Co.)	Similar to the previous aerial year.
2010 Aerial (Oakland Co.)	Similar to the previous aerial year.

Aerial and Sanborn Summary for 620 East Harrison Avenue

Year and Source	Summary of Information
1931 Sanborn Map (EDR)	The subject property is not depicted in this Sanborn map.
1940 Aerial (MSU)	Contains vacant land.
1949 Aerial (WSU)	Contains a residential dwelling and commercial building (1113 Morse Avenue) in the northern portion of the property. A second commercial building (1209 Morse Avenue) is located in the central portion of the property and is identified as a contractor warehouse and shop. The remaining portions of the property appear similar to the previous aerial year.
1950 Sanborn Map (EDR)	Similar to the previous aerial year.
1952 Aerial (WSU)	The 1113 Morse building has been demolished. Five ASTs are present in the northern portion of the property. The remaining portions of the property appear similar to the previous Sanborn year.
1953 Sanborn Map (EDR)	Similar to the previous aerial year.
1957 Aerial (WSU)	Similar to the previous aerial and Sanborn years.

Year and Source	Summary of Information
1961 Aerial (MSU)	Similar to the previous aerial and Sanborn years.
1963 Aerial (Oakland Co.)	Similar to the previous aerial and Sanborn years.
1967 Aerial (MSU)	Due to scale and resolution, definitive details could not be determined.
1968 Sanborn Map (EDR)	Similar to the previous aerial years.
1974 Aerial (Oakland Co.)	The road oil ASTs and the majority of the building identified as 1209 Morse have been demolished. The northern portion of the property is vacant and the southern portion is a surface parking lot.
1980 Aerial (Oakland Co.)	The small portion of the 1209 Morse building has been demolished. Contains asphalt-paved parking, which is similar to the current layout observed during PM's site reconnaissance.
1990 Aerial (Oakland Co.)	Similar to the previous aerial year.
1997 Aerial (Oakland Co.)	Similar to the previous aerial year.
2000 Aerial (Oakland Co.)	Similar to the previous aerial year.
2005 Aerial (Oakland Co.)	Similar to the previous aerial year.
2010 Aerial (Oakland Co.)	Similar to the previous aerial year.

4.2: Local Street Directories

Reasonably ascertainable local street directories for Royal Oak, Michigan were researched. Directories were available from 1945 to 2012. Directories were researched in at least five-year increments, when available. It should not be construed that the earliest date represented is the initial date of occupancy.

PM also reviewed listings for adjoining commercial properties. Information from the listings reviewed is included in Section 8.0.

Subject Property Addresses

1210 Morse Avenue

2012-2009	Not Listed
2006-2005	No Phone Listed
2003-2002	ERB Lumber
2000-1999	Eton Architectural Millwork ERB Lumber
1996-1995	Eton Architectural Millwork
1993-1945	Not Listed

*Phase I ESA of the Warehouse Property
Located at 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Michigan
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1220 Morse Avenue

2012-2011	Grafico Industries
2009-2005	Kirtland Associates Inc. Program Administration Source One Distributions Services Inc.
2003-2002	Source One Services Inc
2000-1999	ADS Inc Source One Svc Inc
1996-1995	Advance Part Design Casa Art Services Kirtland Associates Inc Source One Services Inc
1993-1992	Casa Art Services Kirtland Assoc Inc Source 1 Distributions
1990-1989	Bell Plastics PRN Services Inc
1987-1986	Colony Press Inc PRN Services Inc
1983-1982	Stationers Wholesale
1980-1964	Foammade Industries
1962-1945	Not Listed

1232 Morse Avenue

2012-2009	Not Listed
2006-1999	CDC Undercar LLC Canusa Distribution Center Inc
1996-1995	CDC Distribution Center Clinton Distribution Center
1993-1992	Not Listed
1990-1986	Formation Industries
1983-1982	D&W Construction Jaimes Industries
1980-1945	Not Listed

620 East Harrison Avenue

2012-2011	Not Listed
2007	Total Court Services
2004-1992	A-W Systems Co.
1989-1976	Not Listed

Historical Subject Property Address

520 East Harrison Avenue

2012-1968	Not Listed
1965-1955	Guardian Fuel Oil
1950-1945	Not Listed

1201 Morse Avenue

2012-1968	Not Listed
1965-1959	AAA Oil Company
1955-1945	Not Listed

1209 Morse Avenue

2012-1959	Not Listed
1955-1950	J.C. Nielsen Company
1945	Not Listed

1113 Morse Avenue

2012-1950	Not Listed
1945	Vacant

4.3: Assessing Department

Reasonably ascertainable assessment information provided by the City of Royal Oak Assessing Department was obtained and reviewed. Assessing records document that the subject property consists of four parcels containing 4.66 acres and is developed with an 86,964 square foot warehouse building, which was initially constructed in 1962 with additions constructed to the northern and southern portions by 1974. Copies of available assessment records for the subject property and the current legal description are included in Appendix B.

4.4: Building Department

Reasonably ascertainable assessment information provided by the City of Royal Oak Building Department was obtained and reviewed. According to building department files, the northern portion of the subject building (1210 Morse Avenue) was occupied by Foammade Industries (a foam manufacturer) between 1960 and 1980, PRN Corporation (a brochure packaging and printing company) between 1980 and 1991, and ERB Lumber in 1994. Building department files indicate that Foammade Industries occupied the entire building during their operation. PM's review did not identify potential environmental concerns associated with the subject property. No relevant information was included within the records reviewed.

4.5: Fire Department

PM reviewed available Royal Oak Fire Department files for the subject property. Fire department records documented that several property inspections were conducted between 1979 and 1978 with minor code violations noted. Additionally, fire department records documented that a spray booth was previously utilized by Formation Industries in at least 1987.

The spray booth is not currently located within the subject building. Based on the short-term operation of Formation Industries (i.e. between at least 1986 and 1990) and lack of current use, PM has not identified the former spray booth as a REC. PM also attempted to interview a representative of the department, but was informed that there was no available staff that would possess additional relevant information about the subject property.

4.6: Health Department

PM submitted a FOIA request to the Oakland County Health Department to review records for the subject property. PM received a written response from a representative of the department indicating no files were available for the subject property.

4.7: Utilities

4.7.1: Municipal Water/Water Wells

The subject property is currently connected to municipal water. PM interviewed a representative of the Royal Oak Water Billing Department, who indicated the subject property was connected to municipal water in 1962, which is consistent with the initial construction of the current building. Review of Sanborn maps indicates municipal water has been available to the subject property since at least 1931. Based upon this information, the former buildings were most likely tapped to municipal water during construction. No records of private water wells have been identified through review of reasonably ascertainable information.

4.7.2: Sanitary Sewer/Septic System

The subject property is currently connected to municipal sewer. According to a representative of the Royal Oak Water Billing Department, no tap records were available for the subject property. The representative indicated that municipal sewer has likely been available for as long as municipal water. Review of Sanborn maps indicates municipal water has been available to the subject property since at least 1931. Based upon this information, the former buildings and current building were most likely tapped to municipal sewer during construction. No records of private septic fields have been identified through review of reasonably ascertainable information.

4.7.3: Heat Source

The subject property is connected to natural gas, which is supplied by Consumers Energy. Review of the Consumers Energy SIMS website indicates the subject property was initially connected to natural gas in 1962, which is consistent with the initial construction of the current building. No alternative heat sources have been identified through review of reasonably ascertainable information.

PM was unable to determine the heat source for the former buildings on the 1210-1232 Morse property from at least 1940 until 1961. It is PM's professional opinion that based upon the former known fuel oil distribution operations and coal yard operations, the original building was likely heated with fuel oil from the associated on-site ASTs and/or coal.

Additionally, PM was unable to determine the heat source for the former buildings on the 620 East Harrison property from at least 1949 until 1980. No documentation of fuel oil use was

identified during review of reasonably ascertainable records, and no visual evidence of fuel oil use was identified during the site reconnaissance. There is the potential for a fuel oil AST or UST to have been used at the property and for a release to have occurred. However, based upon PM's experience, contamination which could be associated with a release would likely represent a de minimis condition. If a fuel oil UST is discovered in the future and/or evidence of a release of historical fuel oil is identified, further evaluation may be necessary.

4.8: Underground Storage Tank (UST) Systems

Review of reasonably ascertainable standard and other historical sources, and site observations, have not identified the current and historical presence of USTs on the subject property. Specifically, no records of USTs were identified though review of reasonably ascertainable records and PM did not observe any evidence of USTs (i.e. fill ports, vent pipes, etc.) during the site reconnaissance.

4.9: Previous Environmental Reports

No previous site investigations were identified by PM for the subject property. Previous reports may exist for the subject property, however, none were provided to PM by the client or owner of the property, and none were available with the appropriate state regulatory agencies.

4.10: Environmental Liens, Activity and Use Limitations, and Government Institutional and Engineering Controls

PM has not identified any record of environmental liens, activity and use limitations, or institutional controls or engineering controls associated with the subject property through review of reasonable ascertainable records.

5.0 INTERVIEWS

The objective of completing interviews with knowledgeable site contacts is to obtain information about the uses and physical characteristics of the property. In general, interviewees supported the information reviewed from other historical sources (i.e. aerial photos, city records, etc.).

Represents	Interviewed	Name and Title	Length of Time Associated with Subject Property	Comments
Current Property Owner	No	Not applicable	Not applicable	Contact information for the current owner was not provided by the client.
Former Property Owner	No	Not applicable	Not applicable	Contact information for the former owner was not reasonably ascertainable or provided by the User
Key Site Manager	No	Not applicable	Not applicable	Contact information for the key site manager was not provided by the client.

Represents	Interviewed	Name and Title	Length of Time Associated with Subject Property	Comments
Current Occupant(s)	Yes	An employee of Source One	Unknown	The central portion of the building has been occupied by the current mail sorting and packing businesses for approximately 21 years. The employee indicated that the northern portion of the building was previously occupied by a lumber distributor and custom woodworking business.
Former Occupant(s)	No	Not applicable	Not applicable	Contact information for the former occupants was not reasonably ascertainable or provided by the User
Other(s)	No	Not applicable	Not applicable	No other relevant interviews were conducted as part of this Phase I ESA.

6.0 SUMMARY OF HISTORICAL USE

1210-1232 Morse Avenue

Standard and other historical sources were able to document that the property was initially developed with a fuel oil distribution operation in the northern portion of the property by 1940. This operation included an office building, an outbuilding, and seven fuel oil ASTs, which were removed by 1974. The central portion of the property was utilized for exterior coal storage between at least 1950 and 1963. The central portion of the current building (1220 Morse Avenue) was constructed in 1962, with additions constructed to the northern (1210 Morse Avenue) and southern (1232 Morse Avenue) portions by 1974. The historical occupants of the current building are as follows:

- 1210 Morse Avenue (northern portion): This portion of the building is currently vacant and was previously occupied by lumber distributor and custom woodworking company between at least 1995 and 2003. No exterior lumber storage was observed on the subject property through review of historical aerial photographs and Sanborn maps. The previous occupants prior to 1995 could not be determined through review of historical sources; however, it is PM's professional opinion that this portion of the building was likely occupied by operations listed under 1220 Morse Avenue. Refer to the paragraph below for additional information.
- 1220 Morse Avenue (central portion): This portion of the building was previously occupied by a foam manufacturer between at least 1964 and 1980, a plastic injection molding company in at least 1989, and has been occupied by numerous

distribution/warehouse operations since 1986. Historical interior waste streams associated with the former manufacturing operations would have consisted of general hazardous substances and/or petroleum products. This time period preceded major environmental regulations and current waste management and disposal procedures. **The historical waste management practices associated with the former manufacturing operations is unknown and may be a source of subsurface contamination, which is a REC.**

- 1232 Morse Avenue (southern portion): This portion of the building is currently vacant and was previously occupied by manufacturing operations between at least 1982 and 1990, and distribution/warehouse operations between at least 1995 and 2006. The previous occupants prior to 1982 could not be determined through review of historical sources; however, it is PM's professional opinion that this portion of the building was likely occupied by operations listed under 1220 Morse Avenue. Refer to the paragraph above for additional information.

Review of historical Sanborn maps indicates that the property formerly contained 11 fuel oil ASTs in the northern portion of the property between at least 1949 and 1974. Additionally, PM was unable to obtain specific information about the initial construction date of the fuel oil distribution operation in the northern portion of the property prior to 1940. **Based upon information obtained from other sources during this Phase I ESA, this data gap is significant and represents a REC. Additionally, based on the documented long-term use of large fuel oil ASTs, the potential exists that a release of fuel oil has occurred and impacted the subsurface in this area, which is a REC.**

The central portion of the property was utilized for exterior coal storage between at least 1950 and 1963. **Based on the long-term exterior coal storage, the potential exists for contaminants to have leached from the coal stored on-site and impacted the subsurface in this area, which is a REC.**

620 East Harrison Avenue

Standard and other historical sources were able to document that the property was initially developed with a residential dwelling and two commercial buildings (1113 Morse Avenue and 1209 Morse Avenue) between 1940 and 1949. The commercial building identified as 1113 Morse was demolished in the 1950s, when five road oil ASTs were installed in the same area in the central portion of the property. The dwelling was demolished in the 1960s. The ASTs and commercial building identified as 1209 Morse were demolished by 1988. The property has contained a surface parking lot since at least 1980. The historical occupants of the former buildings are as follows:

- The occupants of the 1113 Morse Avenue building could not be determined through review of historical sources; however, based on the short-term operations (i.e. between the 1940s and 1952), PM has not identified the unknown operations as a REC.
- The 1209 Morse Avenue building was previously occupied by a construction company between at least 1950 and 1955, and a machine shop between at least 1959 and 1962. The occupants from 1963 to demolition (between 1968 and 1974) could not be determined through review of historical sources; however, based on the layout of the building and the last documented use, the building was likely occupied by similar

machine shop operations to the date of demolition. Historical interior waste streams associated with the former machine shop operations would have included hazardous substances and/or petroleum products. The historical waste management practices associated with the former operations is unknown. **Based on the potential long-term machine shop operations and close proximity (approximately 75-feet and across Morse Avenue), the potential exists that a release has occurred and migrated onto the subject property, which is a REC.**

Review of historical Sanborn maps indicates that the property formerly contained five road oil ASTs in the northern portion of the property between at least 1952 and 1968. **Based on the documented long-term use of large road oil ASTs, the potential exists that a release of fuel oil has occurred and impacted the subsurface in this area, which is a REC.**

7.0 SUBJECT PROPERTY RECONNAISSANCE

Reconnaissance Information	
PM Field Personnel:	Ms. Katie Ward
Site Reconnaissance Date:	August 6, 2012
Weather Conditions:	80 degrees Fahrenheit and clear
Escort:	Mr. Bob Woltson
Limitations:	None identified.

7.1: Subject Property Observations

The subject building contains a total 86,964 square feet of floor space, which is divided into offices, warehouse areas, and bathrooms.

Interior finish materials in the office area include two foot by four foot suspended acoustical ceiling tile, drywall and wood paneled walls, and carpeted and ceramic tiled flooring. The warehouse areas include open metal-deck ceilings, concrete block walls, and poured concrete flooring. The bathrooms include drywall ceilings and walls, and vinyl tiled flooring. The entire building is on a poured concrete foundation.

The following table summarizes the site observations. Affirmative responses are discussed in more detail following the table.

Category	Feature	Observed
Interior Equipment	Elevators	No
	Air Compressors	No
	Incinerators	No
	Waste Treatment Systems	No
	Presses/Stamping Equipment	No
	Press Pits	No
	Hydraulic Lifts or In-ground hoists	No
	Paint Booth	No
	Plating Tanks	No
	Lathes, Screw Machines, etc.	No
Aboveground Chemical or Other Waste Storage or Waste Streams	Aboveground Storage Tanks (ASTs)	No
	Drums, Barrels and/or Containers > 5 gallons	No
	Chip Hoppers	No
	Hazardous or Petroleum Waste Streams	No

Category	Feature	Observed
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground Storage Tanks	No
	Fuel Dispensers	No
	Sumps or Cisterns	No
	Dry Wells	No
	Oil/Water Separators	No
	Floor Drains, Trench Drains, etc.	Yes
	Pipeline Markers	No
Exterior Observations	Stressed Vegetation	No
	Stained Soil or Pavement	No
	Pad or Pole Mounted Transformers and/or Capacitors	Yes
	Soil Piles of Unknown Origin	No
	Exterior Dumpsters with Staining	No
	Leachate or Other Waste Seeps	No
	Trash, Debris, and/or Other Waste Materials	No
	Uncontrolled Dumping or Disposal Areas	No
	Surface Water Discoloration, Sheen or Free Product	No
	Strong, Pungent or Noxious Odors	No
	Storm water retention or detention ponds	No
	Pits, Ponds, Lagoons	No

Floor Drains, Trench Drains, etc.: PM observed floor drains in the bathrooms within the subject building. No staining or evidence of poor waste management was observed in association with the floor drains. The drains discharge into the municipal sewer.

Pad or Pole Mounted Transformers and/or Capacitors: PM observed eight pole-mounted transformers throughout the subject property. The transformers appeared to be in good condition with no signs of any leaks.

7.1.1: Current Operations

Operations in the central portion of the subject building consist of sorting and packing mail. Additionally, limited ink and toner is utilized for small scale printing. The northern and southern portions of the building are currently unoccupied and therefore there are no current business operations.

8.0 ADJOINING PROPERTIES

The following paragraphs provide information about the adjoining properties obtained during the site reconnaissance and through review of reasonably ascertainable information.

North Adjoining Properties, across East Harrison Avenue

The north adjoining properties are currently and have historically contained residential dwellings and/or vacant land dating back to at least 1931.

East Adjoining Property, across East Harrison Avenue

The east adjoining properties are currently and have historically contained residential dwellings and/or vacant land dating back to at least 1940.

The southeast adjoining property, identified as 1300 Batavia Avenue, is currently occupied by George & Company (a commercial printing business), and Epic Motion (a photography studio). Review of historical sources indicates that this property was developed with a residential dwelling in the southeastern portion of the property by 1949, which was demolished by 1961. Additionally, the eastern portion of the current building was constructed between 1940 and 1945, with additions constructed to the western portion by 2010. The property was previously occupied by numerous manufacturing operations and machine shops between at least 1945 and 2001, and has been occupied by the current commercial printing operation since at least 2004. Historical interior waste streams associated with the former manufacturing and machine shop operations would have included hazardous substances and/or petroleum products. The historical waste management practices associated with the former operations is unknown. **Based on the documented long-term manufacturing and machine shop operations and close proximity to the subject property (approximately 50-feet and across Morse Avenue), the potential exists that contamination has migrated onto the subject property, which is a REC.** The EDR report has identified this property as a BEA site. Refer to Section 9.2 for additional information.

South Adjoining Properties

The southeast adjoining property, identified as 622 Macwilliams Lane, is currently occupied by a residential apartment complex. Review of historical sources indicates that this property was initially developed with seven commercial buildings prior to 1940, which were demolished by 1990. This property remained vacant between at least 1990 and 2000. The current residential apartment complex was constructed between 2000 and 2005. Review of historical Sanborn maps and aerial photographs indicates that this property was occupied by a building contractor warehouse and supply yard between at least 1940 and 1980. According to historical Sanborn maps, the former commercial buildings were utilized as a machine shop, a welding shop, and for paint storage, equipment storage, and other miscellaneous storage. Historical interior waste streams associated with the former warehouse and supply yard operations would have included hazardous substances and/or petroleum products. The historical waste management practices associated with the former operations is unknown. **Based on the long-term warehouse and supply yard operations and close proximity to the subject property (i.e. directly adjoining), the potential exists that a release has occurred and migrated onto the subject property, which is a REC.**

The southwest adjoining properties are currently and have historically contained residential dwellings and/or vacant land since at least 1940.

West Adjoining Property

The west adjoining property currently contains vacant land. Review of historical sources indicates that this property initially contained railroad spurs prior to 1931, which were removed by 2005. Review of historical aerial photographs indicates that exterior storage of unknown materials was observed in the northern portion of the property between at least 1974 and 2000. **Based on the long-term exterior storage of unknown materials and the close proximity to the subject property (i.e. directly adjoining), the potential exists for contaminants to have leached from the unknown materials stored on-site and migrated onto the subject property, which is a REC.**

9.0 REGULATORY RECORDS REVIEW

PM retained EDR to provide current environmental database information compiled by a variety of federal and state regulatory agencies. A copy of the complete database is included in Appendix D. The following information was obtained.

Type	Regulatory Agency Database	Approximate Minimum Search Distance (AMSD)	Number of Sites within AMSD
Federal	National Priority List (NPL) Sites	1 mile	0
Federal	Delisted National Priority List (DNPL) Sites	½ mile	0
Federal	Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) Sites	½ mile	0
Federal	CERCLIS No Further Remediation Action Planned (NFRAP) Sites	subject property and adjoining properties	0
Federal	Resource Conservation and Recovery Act (RCRA) Corrective Action Report (CORRACTS) Sites	1 mile	1
Federal	RCRA non-CORRACTS Treatment, Storage or Disposal (TSD) Sites	½ mile	0
Federal	RCRA Large Quantity Generators (LQG) Sites	subject property and adjoining properties	0
Federal	RCRA Small Quantity Generators (SQG) Sites	subject property and adjoining properties	0
Federal	RCRA Conditionally Exempt Small Quantity Generators (CESQG) Sites	subject property and adjoining properties	0
Federal	RCRA Non-Generators (NON-GEN) Sites	subject property and adjoining properties	0
Federal	US Brownfield Sites	½ mile	0
Federal	Institutional Control / Engineering Control Registries	subject property	0
Federal	Environmental Response and Notification System (ERNS)	subject property	0
State & Tribal	Hazardous Waste Sites (HWS) (equivalents to NPL and CERCLIS)	1 mile	4
State & Tribal	Delisted Hazardous Waste Sites (HWS)	1 mile	1
State & Tribal	Solid Waste Facilities/Landfill Sites (SWLF)	½ mile	0
State & Tribal	Historical Landfill Sites (HIST LF)	½ mile	0
State & Tribal	Leaking Underground Storage Tank (LUST) Sites	½ mile	10
State & Tribal	Registered Underground Storage Tank (UST) Sites	subject property and adjoining properties	0
State & Tribal	Institutional Control / Engineering Control Registries	subject property	0
State & Tribal	Brownfield Sites	½ mile	0
State	Baseline Environmental Assessment (BEA) Sites	½ mile	20
Either	Unmappable Database Listings (a.k.a. Orphan Sites)	database-dependent	15

9.1: Subject Property and Occupant Listings

The Environmental database report identified the following listings for the subject property or its known occupants on the referenced databases:

Bell Plastics – The subject property is identified as RCRA-NonGen site. Review of MDEQ file information indicates that the subject property was listed as a generator of hazardous waste in 1989 with no documented violations. The property was occupied by a plastics injection molding company in at least 1989. Based on the short-term operations and lack of documented violations, PM has not identified this listing as a REC.

9.2: Adjoining and Nearby Sites

PM's review of the referenced databases also considered the potential or likelihood of contamination from adjoining and nearby sites. To evaluate which of the adjoining and nearby sites identified in the Environmental database report present an environmental risk to the subject property, PM considered the following criteria:

- The type of database on which the site is identified.
- The topographic position of the identified site relative to the subject property.
- The direction and distance of the identified site from the subject property.
- Local soil conditions in the subject property area.
- The known or inferred groundwater flow direction in the subject property area.
- The status of the respective regulatory agency-required investigation(s) of the identified site, if any.
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes, and ditches) located between the identified site and the subject property.

Only those sites that are judged to present a potential environmental risk to the subject property and/or warrant additional clarification are further evaluated. Using the referenced criteria, and based upon a review of readily available information contained within the Environmental database report, PM did not identify adjoining (i.e., bordering) or nearby sites (e.g., properties within a ¼-mile radius) listed in the Environmental database report that were judged to present a potential environmental risk to the subject property, with the exception of the following:

Carnwath & Sons Contracting Property – This property is identified as 1200 Knowles Street, and is located approximately 150-feet west of the subject property. The EDR report indicates that this property is listed as a BEA site. Review of MDEQ file information indicates that analytical results from subsurface testing conducted in 2011 identified elevated levels of soil contamination above the MDEQ Generic Residential Cleanup Criteria. The elevated levels of identified soil contamination were limited to a maximum depth of 2.0-feet bgs. Discontinuous groundwater was observed between 3.0-feet and 6.0 feet bgs. No groundwater contamination was identified above laboratory MDLs. Based on lack of consistent groundwater to act as a transport mechanism and distance from the subject property (approximately 150-feet), PM has not identified this listing as a REC.

Batavia Property – This property is identified as 1300 Batavia Avenue, and is the east adjoining property. The EDR report indicates that this property is listed as a BEA site. Review of the EDR report indicates that a Category N BEA was submitted for this property in November

2001. PM attempted to review MDEQ file information; however, according to a representative of the MDEQ, the files could not be located. **Based on documented contamination and the close proximity to the subject property (approximately 45-feet and across Morse Avenue), the potential exists that contamination has migrated onto the subject property, which is a REC.**

10.0 NON-ASTM SCOPE CONSIDERATIONS

PM has included a discussion of Non-ASTM Scope Considerations based upon industry standards and lender requirements.

Non-ASTM Item	Observations or Information
Potential Asbestos Containing Building Materials (ACBM)	Based upon PM's limited visual observations during the site reconnaissance, suspect ACBMs identified included drywall walls and ceilings, acoustical ceiling tiles, and vinyl tiled flooring. The materials appeared to be in fair condition.
Lead Based Paint	No peeling or blistering observed.
Visual Mold or Significant Moisture Damage	PM visually observed indications of water damage on drywall and ceiling tiles inside the office and warehouse portions of the subject building. PM recommends that the sources of the moisture intrusion should be identified and eliminated as part of on-going building management activities.
Wetlands	None observed.

11.0 FINDINGS, OPINIONS AND CONCLUSIONS

The following significant data gaps were identified by PM during the course of this ESA:

- Due to data failure, PM was unable to obtain specific information about the fuel oil distribution operation in the northern portion of the property prior to 1940. Based upon information obtained from other sources during this Phase I ESA, this data gap is significant and represents a REC unless additional information is obtained or made available.

11.2: Recognized Environmental Conditions (RECs)

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of the Warehouse Property located at 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Oakland County, Michigan, the property. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of recognized environmental conditions connected with the property except the following:

- Review of historical records indicates that the subject property (1210-1232 Morse Avenue) formerly contained a total of 11 fuel oil ASTs in the northern portion of the property between at least 1940 and 1974. Additionally, PM was unable to obtain specific information about the initial construction date of the fuel oil distribution operation in the northern portion of the property (1210-1232 Morse Avenue) prior to 1940. Based upon information obtained from other sources during this Phase I ESA, this data gap is significant and represents a REC. Additionally, based on the documented long-term use

of large fuel oil ASTs, the potential exists that a release has occurred and impacted the subsurface in this area.

- The central portion of the subject property (1210-1232 Morse Avenue) was utilized for exterior coal storage between at least 1950 and 1961. Based on the long-term exterior coal storage, the potential exists for contaminants to have leached from the coal stored on-site and impacted the subsurface in this area.
- The central portion of the current subject building was previously occupied by a foam manufacturer between at least 1964 and 1980. Historical interior waste streams associated with the former manufacturing operations would have consisted of general hazardous substances and/or petroleum products. The historical waste management practices associated with the former manufacturing operations is unknown and may be a source of subsurface contamination in this area.
- Review of historical records indicates that the subject property (620 East Harrison Avenue) formerly contained five road oil ASTs in the northern portion of the property between at least 1952 and 1968. Based on the documented long-term use of large road oil ASTs, the potential exists that a release of fuel oil has occurred and impacted the subsurface in this area.
- The subject property (620 East Harrison Avenue) contained a former commercial building that was previously occupied a machine shop between at least 1959 and 1962, and potentially to 1974. Historical interior waste streams associated with the former machine shop operations would have included hazardous substances and/or petroleum products. Based on the possible long-term machine shop operations, the potential exists that a release has occurred and impacted the subsurface in this area.

The following adjoining and/or nearby RECs have been identified:

- The southeast adjoining property, identified as 1300 Batavia Avenue, was previously occupied by numerous manufacturing operations and machine shops between at least 1945 and 2001. A Category N BEA was submitted for this property in November 2001. Historical interior waste streams associated with the former manufacturing and machine shop operations would have included hazardous substances and/or petroleum products. Based on documented contamination, the long-term manufacturing and machine shop operations, and close proximity to the subject property (approximately 50-feet and across Morse Avenue), the potential exists that contamination has migrated onto the subject property.
- The southeast adjoining property, identified as 622 Macwilliams Lane, was previously occupied by a building contractor warehouse and supply yard between at least 1940 and 1980. According to historical Sanborn maps, the former commercial buildings were utilized as a machine shop, a welding shop, and for paint storage, equipment storage, and other miscellaneous storage. Historical interior waste streams associated with the former warehouse and supply yard operations would have included hazardous substances and/or petroleum products. Based on the long-term warehouse and supply yard operations, and close proximity to the subject property (i.e. directly adjoining), the potential exists that a release has occurred and migrated onto the subject property.

- The west adjoining property previously contained railroad spurs prior to 1931, which were removed by 2005. Exterior storage of unknown materials was observed in the northern portion of the property between at least 1974 and 2000. Based on the long-term exterior storage of unknown materials and the close proximity to the subject property (i.e. directly adjoining), the potential exists for contaminants to have leached from the unknown materials stored on-site and migrated onto the subject property.

11.3: Historical Recognized Environmental Conditions (HRECs)

A historical REC, as defined in the ASTM Standard, is an environmental condition that in the past would have been identified as a REC, but has been adequately addressed and therefore no longer represents a REC. PM has not identified any historical RECs in association with the subject property.

11.4: De Minimis Conditions

De minimis conditions are conditions that generally do not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies. Conditions determined to be de minimis are not recognized environmental conditions. No de minimis conditions were identified during completion of this report.

11.5: Recommendations

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of the Warehouse Property located at 1210-1232 Morse Avenue and 620 East Harrison Avenue, Royal Oak, Oakland County, Michigan, the property. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of recognized environmental conditions connected with the property except as listed in Section 11.2 of this report.

Parts 201 and 213 of the 1994 Michigan Natural Resources Environmental Protection Act (NREPA) provide liability protection for off-site migration of contamination to the subject property.

Verification of the presence or absence of contaminants potentially associated with these RECs may be determined through a Phase II investigation at the request of the client. Cost/risk analysis decisions associated with further investigation of these conditions are the decision of the client.

12.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

We declare that, to the best of my professional knowledge and belief, we meet the definition of *Environmental professional* as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Beth Bailey
Manager of Due Diligence Services

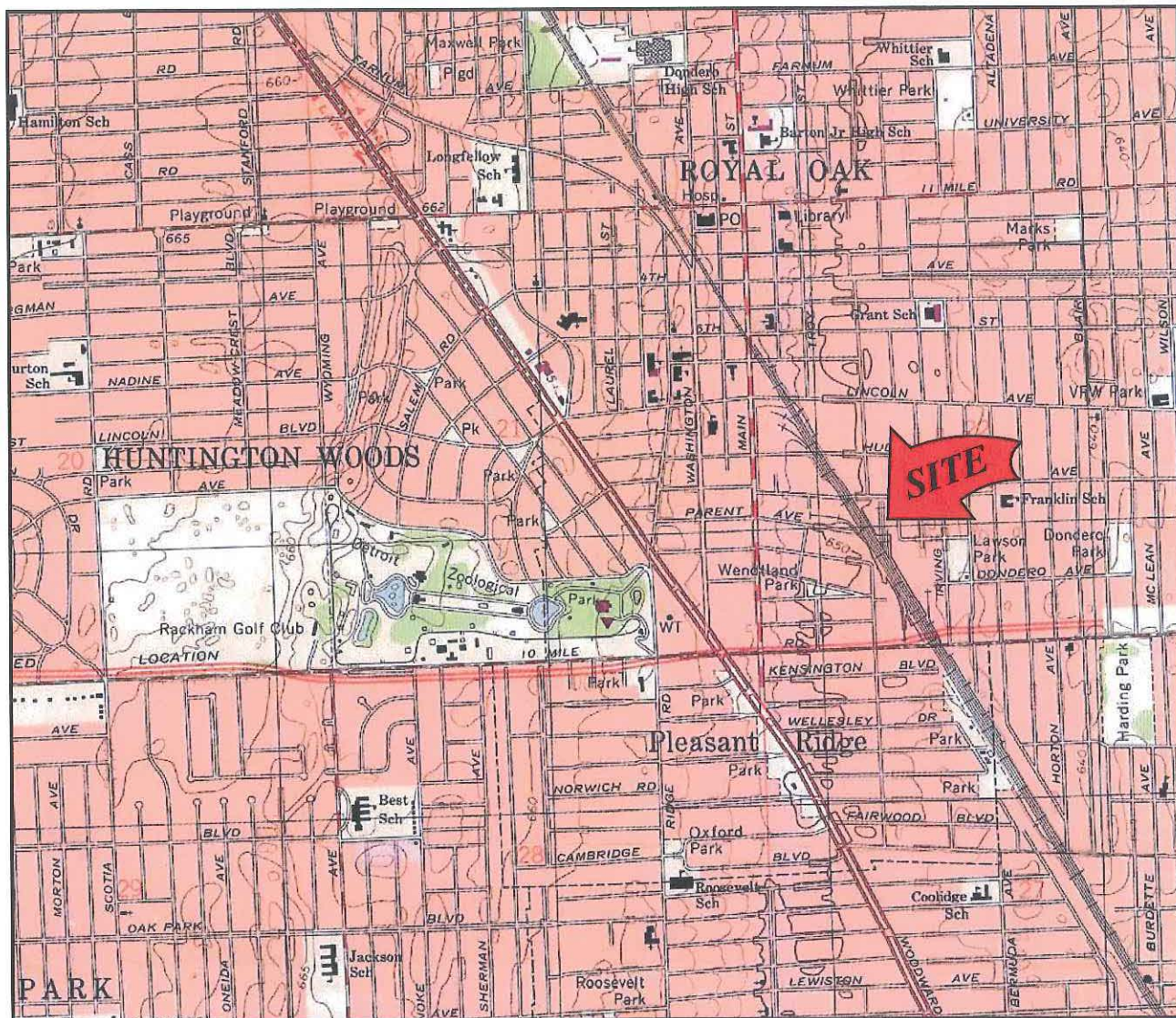


Michael T. Kulka, P.E.
Principal

13.0 REFERENCES

The following published sources were utilized during completion of this Phase I ESA:

- *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM, ASTM Designation E 1527-05, Published November 2005.
- Bresser's Cross-Index City Directories, Bresser's in Detroit, Michigan. City: Royal Oak. Years: 1945-2012.
- United States Geological Survey Division (U.S.G.S.) 7.5 Minute Topographic Map Royal Oak, Michigan Quadrangle, 1996.
- *Soil Survey of Oakland County, Michigan*, U.S. Department of Agriculture, March 1982.

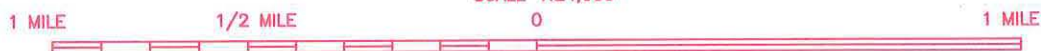


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T:1 N., R:11 E., Sec. 22

OAKLAND COUNTY

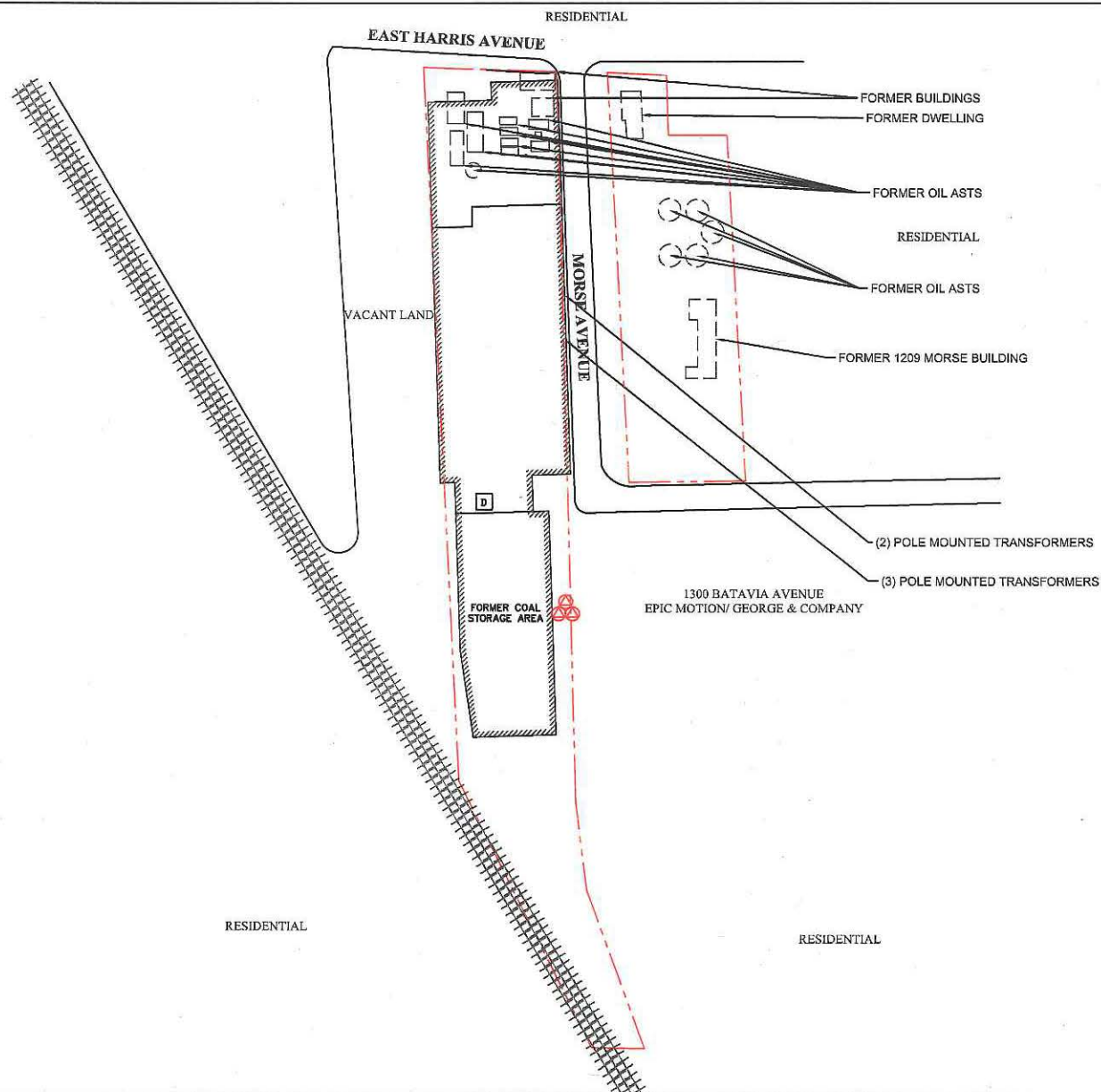
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MICHIGAN QUADRANGLE LOCATION

FIGURE 1
PROPERTY VICINITY MAP
USGS, 7.5 MINUTE SERIES
ROYAL OAK, MI QUADRANGLE, 1996.

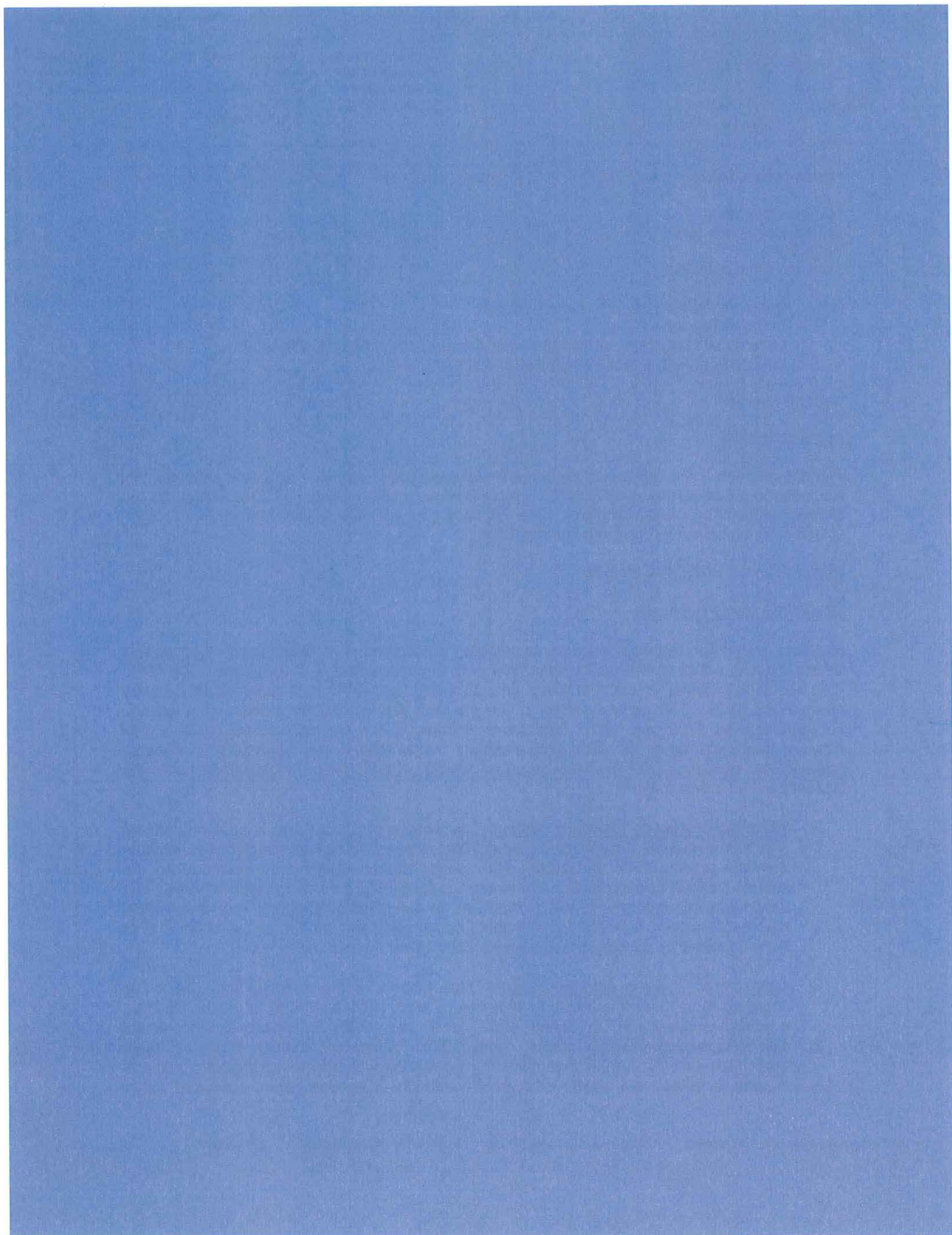




LEGEND:

- SUBJECT PROPERTY
- FORMER/HISTORICAL SITE FEATURES
- RAIL ROAD TRACKS
- POLE MOUNTED TRANSFORMER
- DUMPSTER

		Environmental & Engineering Services	
FIGURE 2 GENERALIZED DIAGRAM OF THE SUBJECT PROPERTY AND ADJOINING PROPERTIES			
PROJ: WAREHOUSE PROPERTY 1210 - 1232 MORSE AVENUE AND 620 EAST HARRISON AVENUE ROYAL OAK, MI			
THIS IS NOT A LEGAL SURVEY	DRN BY: DF	DATE: 9/6/2012	
VERNER SCALE 0' 120'	CHRD BY: BH	SCALE: 1"=120'	
IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.		FILE NAME: 02-5771-0F02R00	



November 19, 2012

Mr. Robert Wolfson
211 East Nine Mile Road
Suite 302
Ferndale, Michigan 48220

**RE: Remedial Investigation Summary Report
of the Warehouse Property
Located at 1210, 1220, and 1232 Morse Avenue, Royal Oak, Michigan
PM Environmental, Inc. Project No. 02-05771-1**

Dear Mr. Wolfson:

INTRODUCTION

PM Environmental, Inc. (PM) has completed site assessment activities and has prepared this Remedial Investigation Summary Report for the warehouse property located at 1210, 1220 and 1232 Morse Avenue, Royal Oak, Michigan. The following cost estimate is based on the information collected during the subject property investigations.

SUMMARY OF HISTORICAL USE

1210-1232 Morse Avenue

Standard and other historical sources were able to document that the property was initially developed with a fuel oil distribution operation in the northern portion of the property by 1940. This operation included an office building, an outbuilding, and seven fuel oil ASTs, which were removed by 1974. The central portion of the property was utilized for exterior coal storage between at least 1950 and 1963. The central portion of the current building (1220 Morse Avenue) was constructed in 1962, with additions constructed to the northern (1210 Morse Avenue) and southern (1232 Morse Avenue) portions by 1974. The historical occupants of the current building are as follows:

- 1210 Morse Avenue (northern portion): This portion of the building is currently vacant and was previously occupied by lumber distributor and custom woodworking company between at least 1995 and 2003. No exterior lumber storage was observed on the subject property through review of historical aerial photographs and Sanborn maps. The previous occupants prior to 1995 could not be determined through review of historical sources; however, it is PM's professional opinion that this portion of the building was likely occupied by operations listed under 1220 Morse Avenue.
- 1220 Morse Avenue (central portion): This portion of the building was previously occupied by a foam manufacturer between at least 1964 and 1980, a plastic injection molding company in at least 1989, and has been occupied by numerous distribution/warehouse operations since 1986. Historical interior waste streams associated with the former manufacturing operations would have consisted of general hazardous substances and/or petroleum products. This time period preceded major

environmental regulations and current waste management and disposal procedures. The historical waste management practices associated with the former manufacturing operations is unknown and may be a source of subsurface contamination.

- 1232 Morse Avenue (southern portion): This portion of the building is currently vacant and was previously occupied by manufacturing operations between at least 1982 and 1990, and distribution/warehouse operations between at least 1995 and 2006. The previous occupants prior to 1982 could not be determined through review of historical sources; however, it is PM's professional opinion that this portion of the building was likely occupied by operations listed under 1220 Morse Avenue. Refer to the paragraph above for additional information.

Review of historical Sanborn maps indicates that the property formerly contained 11 fuel oil ASTs in the northern portion of the property between at least 1949 and 1974. Additionally, PM was unable to obtain specific information about the initial construction date of the fuel oil distribution operation in the northern portion of the property prior to 1940. Additionally, based on the documented long-term use of large fuel oil ASTs, the potential exists that a release of fuel oil has occurred and impacted the subsurface in this area.

The central portion of the property was utilized for exterior coal storage between at least 1950 and 1963. Based on the long-term exterior coal storage, the potential exists for contaminants to have leached from the coal stored on-site and impacted the subsurface in this area.

620 East Harrison Avenue

Standard and other historical sources were able to document that the property was initially developed with a residential dwelling and two commercial buildings (1113 Morse Avenue and 1209 Morse Avenue) between 1940 and 1949. The commercial building identified as 1113 Morse was demolished in the 1950s, when five road oil ASTs were installed in the same area in the central portion of the property. The dwelling was demolished in the 1960s. The ASTs and commercial building identified as 1209 Morse were demolished by 1988. The property has contained a surface parking lot since at least 1980. The historical occupants of the former buildings are as follows:

- The occupants of the 1113 Morse Avenue building could not be determined through review of historical sources; however, based on the short-term operations (i.e. between the 1940s and 1952), PM has not identified the unknown operations as a REC.
- The 1209 Morse Avenue building was previously occupied by a construction company between at least 1950 and 1955, and a machine shop between at least 1959 and 1962. The occupants from 1963 to demolition (between 1968 and 1974) could not be determined through review of historical sources; however, based on the layout of the building and the last documented use, the building was likely occupied by similar machine shop operations to the date of demolition. Historical interior waste streams associated with the former machine shop operations would have included hazardous substances and/or petroleum products. The historical waste management practices associated with the former operations is unknown. Based on the potential long-term machine shop operations and close proximity (approximately 75-feet and across Morse

Avenue), the potential exists that a release has occurred and migrated onto the subject property.

Review of historical Sanborn maps indicates that the property formerly contained five road oil ASTs in the northern portion of the property between at least 1952 and 1968. Based on the documented long-term use of large road oil ASTs, the potential exists that a release of road oil has occurred and impacted the subsurface in this area.

SITE ASSESSMENT ACTIVITIES

To date PM has completed a total of 54 soil borings at the above referenced subject property to assess the historical use and in an attempt to determine the horizontal and vertical extent of impact. Additional delineation activities are being completed on November 19 and 20, 2012. Groundwater impact has not been defined in the northeast portion of the building or in the southern portion of the building. Additionally, soil PCB and VOC impact in the parking lot area has not been fully defined to the north, east, and west and VOC impact has not been defined to the north, east, or west in the southern portion of the building.

Analytical results from the site assessment activities completed indicate that residual soil and/or groundwater impact is present in three areas of the subject building (two areas in the northern portion of the building and one area in the southern portion of the building) above the Residential Soil Volatilization to Indoor Air Inhalation (SVII) or the Vapor Intrusion (VI) Criteria for groundwater. Additionally, soil impact is present in the parking lot area above the federal Toxic Substance Control Act (TSCA) direct contact criterion and above the Residential SVII Criteria. Based on these results and proposed residential usage of the subject property, corrective action activities, consisting of excavation, insitu remediation, groundwater source removal, and/or soil gas sampling will be necessary prior to redevelopment of the subject property. Please refer to Figures 1a, 1b, and 2 for estimated extent of soil and groundwater impact.

ESTIMATED AREAS OF IMPACT

Estimates presented below are for pursuing Residential Part 201 Closure and TSCA Closure and are strictly estimates. After completion of delineation these estimated may be refined.

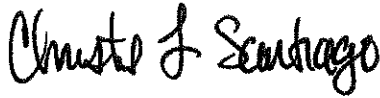
Area of Excavation	Estimated Cubic Yardage
Warehouse Building	3,250
Parking Lot (Non-Hazardous)	1,220
Parking Lot (Hazardous)	600

PM is currently conducting additional investigation and will revise this estimate upon completion. PM is obtaining quotes to complete hybrid excavation activities and/or insitu remediation. PM estimates that cleanup cost to be approximately \$800,000 to \$900,000.

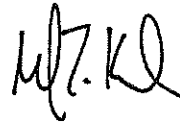
**Remedial Investigation Summary Report of the Warehouse Property
Located at 1210, 1220, and 1232 Morse Avenue, Royal Oak, Michigan
PM Environmental, Inc. Project No. 02-05771-1; November 19, 2012**

If you have any questions related to this letter report please do not hesitate to contact our office at (248) 336-9988.

Sincerely,
PM Environmental, Inc.



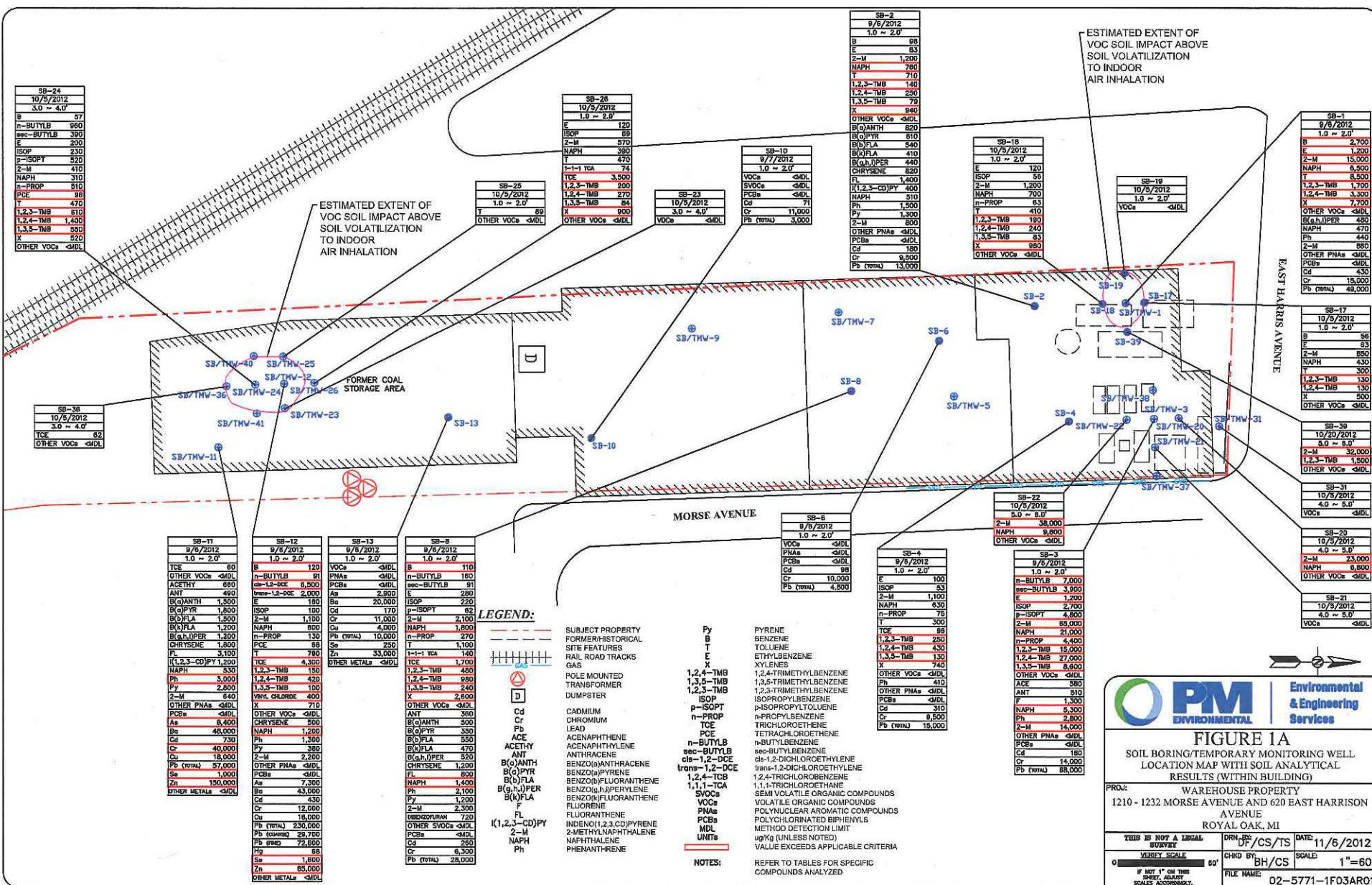
Christie L. Santiago
Senior Project Manager




Michael T. Kulka, P.E.
Principal Engineer

Attachments:

- Figure 1A Soil Boring/Temporary Monitoring Location Map with Soil Analytical Results (Warehouse Property)
- Figure 1B Soil Boring/Temporary Monitoring Location Map with Soil Analytical Results (Parking Lot Property)
- Figure 2 Soil Boring/Temporary Monitoring Location Map with Groundwater Analytical Results





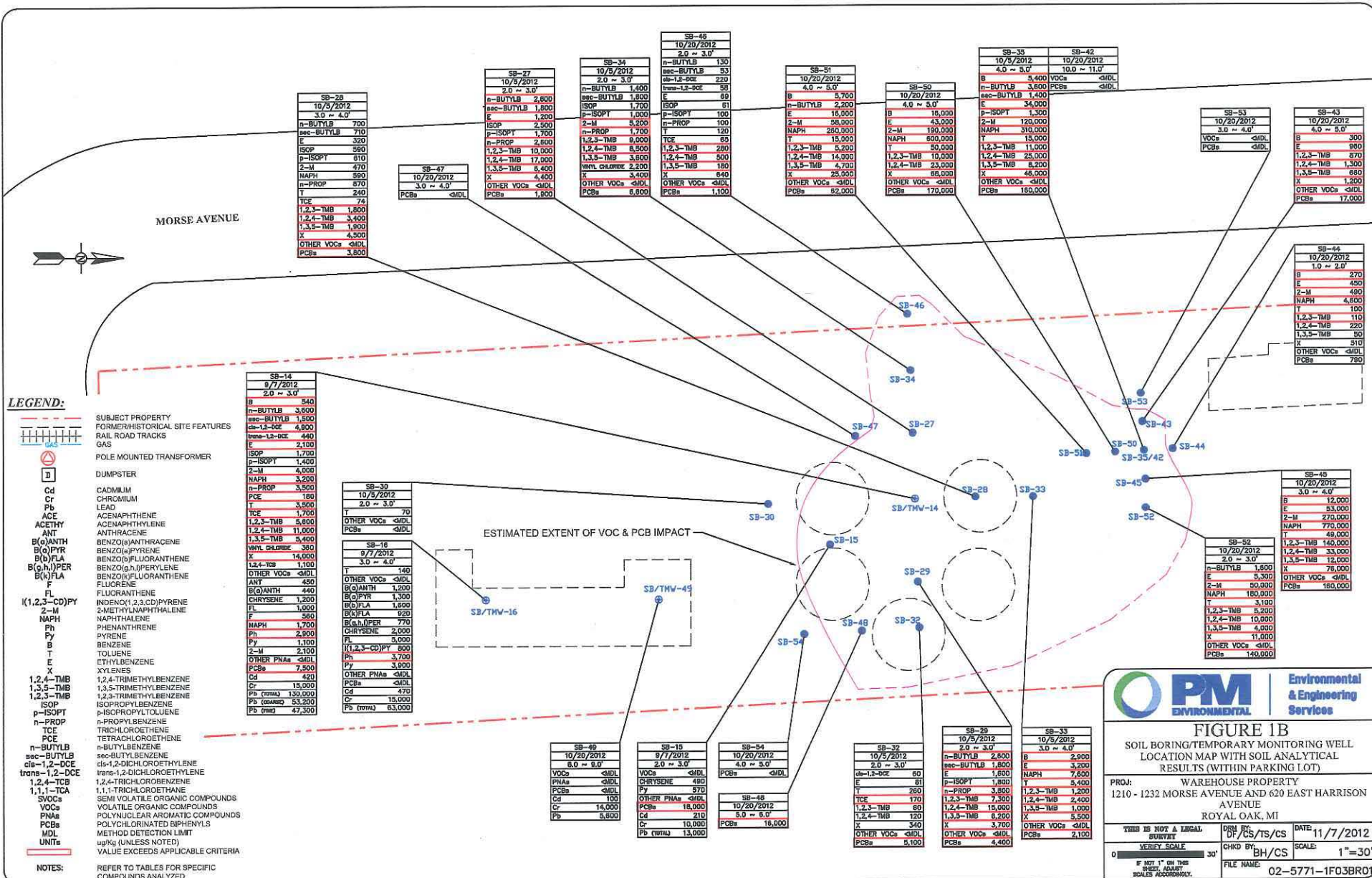
PM
Environmental
& Engineering
Services

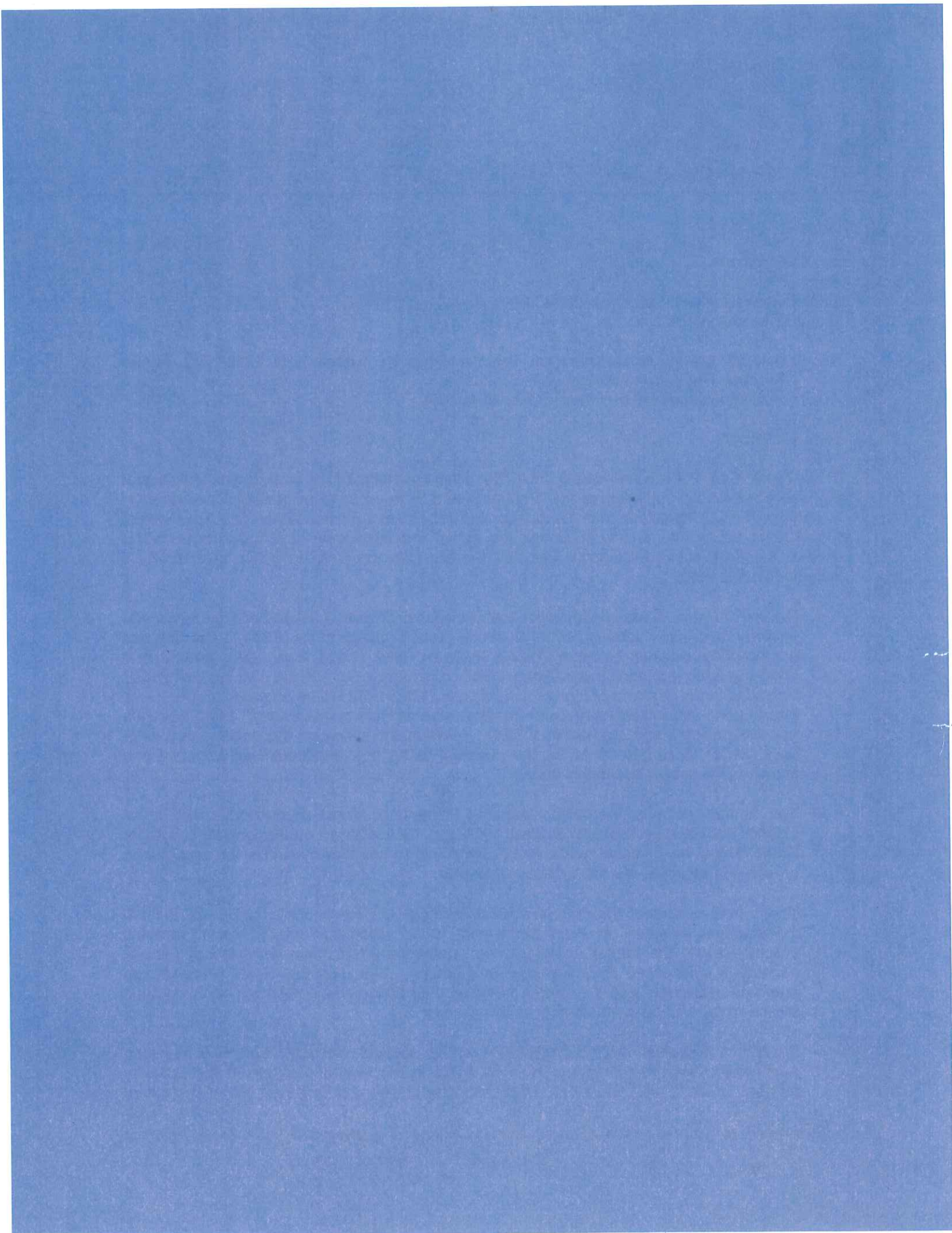
FIGURE 1A

SOIL BORING/TEMPORARY MONITORING WELL
LOCATION MAP WITH SOIL ANALYTICAL
RESULTS (WITHIN BUILDING)

PROJ: WAREHOUSE PROPERTY
1210 - 1232 MORSE AVENUE AND 620 EAST HARRISON
AVENUE
ROYAL OAK, MI

THIS IS NOT A LEGAL SURVEY	DATE: 11/6/2012
DATE: 11/6/2012	DATE: 11/6/2012
SCALE: 1"=60'	SCALE: 1"=60'
FILE NAME: 02-5771-1F03AR01	FILE NAME: 02-5771-1F03AR01







ISO 9001 REGISTERED

Detroit
4080 W. 11 Mile Rd
Berkley, MI 48072
f: 877-884-6775
t: 248-336-9988

Grand Rapids
77 Monroe Center, NW
Suite 602
Grand Rapids, MI 49503
f: 877-884-6775
t: 616-285-8857

Lansing
3340 Ranger Road
Lansing, MI 48906
f: 877-884-6775
t: 517-321-3331

January 6, 2014

Mr. Kevin Wilson
Harrison Lofts, LLC
2200 Genoa Business Park Drive, Suite 200
Brighton, Michigan 48114

**Re: Facility Status Documentation for the Property Located at 1210-1232 Morse Avenue, Royal Oak, Michigan
PM Environmental, Inc. Project No. 02-5771-4**

Dear Mr. Wilson:

In 2012 and 2013, PM Environmental, Inc. (PM), conducted subsurface investigation activities at the above-referenced subject property (Figures 1 and 2) to assess Recognized Environmental Conditions (RECs) identified in the September 6, 2012 Phase I Environmental Site Assessment (ESA) prepared by PM, and to document the extent and magnitude of soil and groundwater impacts identified above Michigan's Part 201 Generic Cleanup Criteria (GCC). Those RECs included the following:

- Review of historical records indicates that the subject property (1210-1232 Morse Avenue) formerly contained a total of 11 fuel oil above-ground storage tanks (ASTs) in the northern portion of the property between at least 1940 and 1974. Additionally, PM was unable to obtain specific information about the initial construction date of the fuel oil distribution operation in the northern portion of the property (1210-1232 Morse Avenue) prior to 1940. Based upon information obtained from other sources during this Phase I ESA, this data gap is significant and represents a REC. Additionally, based on the documented long-term use of large fuel oil ASTs, the potential exists that a release has occurred and impacted the subsurface in this area.
- The central portion of the subject property (1210-1232 Morse Avenue) was utilized for exterior coal storage between at least 1950 and 1961. Based on the long-term exterior coal storage, the potential exists for contaminants to have leached from the coal stored on-site and impacted the subsurface in this area.
- The central portion of the current subject building was previously occupied by a foam manufacturer between at least 1964 and 1980. Historical interior waste streams associated with the former manufacturing operations would have consisted of general hazardous substances and/or petroleum products. The historical waste management practices associated with the former manufacturing operations is unknown and may be a source of subsurface contamination in this area.
- Review of historical records indicates that the subject property (620 East Harrison Avenue) formerly contained five road oil ASTs in the northern portion of the property between at least 1952 and 1968. Based on the documented long-term use of large road

oil ASTs, the potential exists that a release of fuel oil has occurred and impacted the subsurface in this area.

- The subject property (620 East Harrison Avenue) contained a former commercial building that was previously occupied a machine shop between at least 1959 and 1962, and potentially to 1974. Historical interior waste streams associated with the former machine shop operations would have included hazardous substances and/or petroleum products. Based on the possible long-term machine shop operations, the potential exists that a release has occurred and impacted the subsurface in this area.
- The southeast adjoining property, identified as 1300 Batavia Avenue, was previously occupied by numerous manufacturing operations and machine shops between at least 1945 and 2001. A Category-N Baseline Environmental Assessment (BEA) was submitted for this property in November 2001. Historical interior waste streams associated with the former manufacturing and machine shop operations would have included hazardous substances and/or petroleum products. Based on documented contamination, the long-term manufacturing and machine shop operations, and close proximity to the subject property (approximately 50-feet and across Morse Avenue), the potential exists that contamination has migrated onto the subject property.
- The southeast adjoining property, identified as 622 Macwilliams Lane, was previously occupied by a building contractor warehouse and supply yard between at least 1940 and 1980. According to historical Sanborn maps, the former commercial buildings were utilized as a machine shop, a welding shop, and for paint storage, equipment storage, and other miscellaneous storage. Historical interior waste streams associated with the former warehouse and supply yard operations would have included hazardous substances and/or petroleum products. Based on the long-term warehouse and supply yard operations, and close proximity to the subject property (i.e. directly adjoining), the potential exists that a release has occurred and migrated onto the subject property.
- The west adjoining property previously contained railroad spurs prior to 1931, which were removed by 2005. Exterior storage of unknown materials was observed in the northern portion of the property between at least 1974 and 2000. Based on the long-term exterior storage of unknown materials and the close proximity to the subject property (i.e. directly adjoining), the potential exists for contaminants to have leached from the unknown materials stored on-site and migrated onto the subject property.

Subsurface investigation activities conducted by PM, included the advancement of 91 soil borings and associated soil and groundwater sampling to assess the RECs listed above. Refer to Figures 3A, 3B, 4, 5A, 5B, and 6, which depict the soil boring locations.

Analytical results of soil and groundwater samples collected during site investigation activities conducted by PM (Tables 1 through 8) were compared with the MDEQ GCC and Screening Levels to MDEQ Operational Memorandum Number 1 "Part 201 Cleanup Criteria and Part 213 Risk-Based Screening Levels," September 28, 2012 and in accordance with Section 20120a(1), using the Residential and Nonresidential cleanup criteria.

Those results identified contaminant concentrations in soil and groundwater at the subject property above the Part 201 Residential and Nonresidential Drinking Water/Drinking Water Protection (DW/DWP), Direct Contact (SDC), Groundwater Surface Water

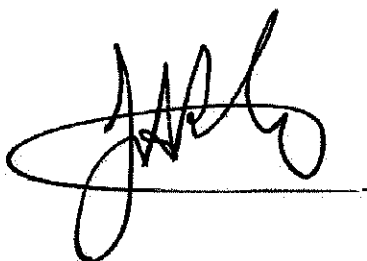
Interface/Groundwater Surface Water Interface Protection (GSI/GSIP), Soil Volatilization to Indoor Air Inhalation (SVII), and/or Volatile Soil Inhalation (VSI) GCC.

A location where a hazardous substance is present in excess of the concentrations, which satisfy the requirements of subsection 20120a(1)(a) or (17), is a facility pursuant to Part 201. Section 20120a(1)(a) requirements are the Cleanup Criteria for unrestricted residential usage. **Therefore, the subject property is a "facility" in accordance with Part 201 of P.A. 451, as amended, and the rules promulgated thereunder.**

A Baseline Environmental Assessment (BEA) will be prepared in accordance with Michigan Part 201 to obtain liability protection for existing contamination on behalf of Harrison Lofts, LLC. The BEA will be completed prior to or within 45 days following the earliest date of purchase or operation. A Documentation of Due Care Compliance (DDCC) will also be prepared outlining activities needed to comply with the due care provisions of Section 20107(a) of Michigan Part 201.

If you require additional information, please contact my office at (248) 336-9988.

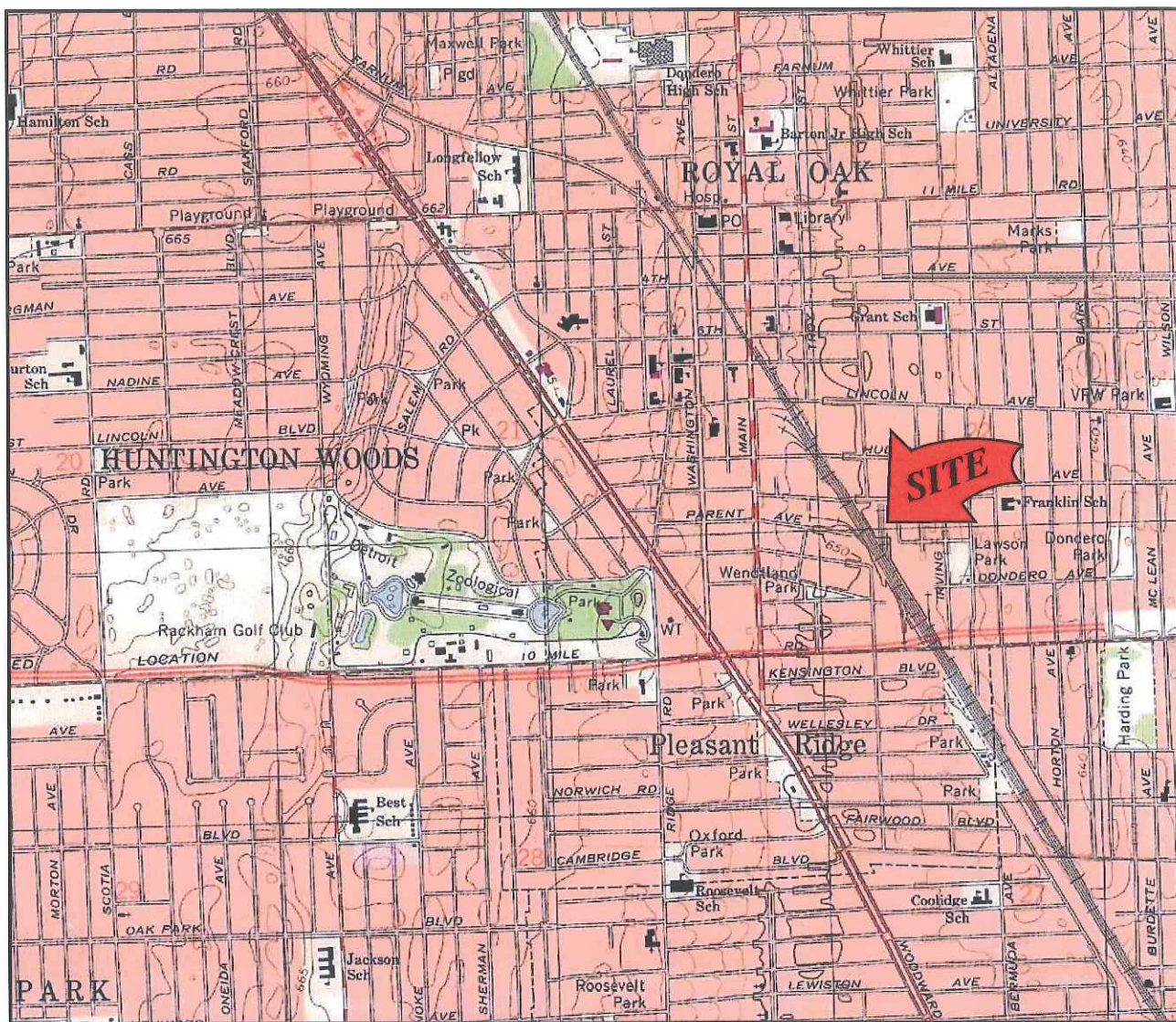
Sincerely,
PM ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read 'J. Adam Patton', written over a horizontal line.

J. Adam Patton, CHMM
Manger of Site Investigation Services

Attachments:

Figures 1, 2, 3A, 3B, 4, 5A, 5B, and 6
Tables 1 through 8



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OAKLAND COUNTY



MICHIGAN QUADRANGLE LOCATION

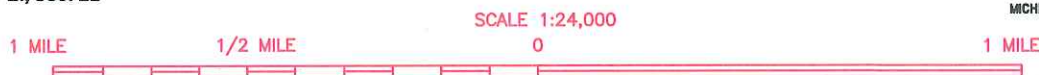
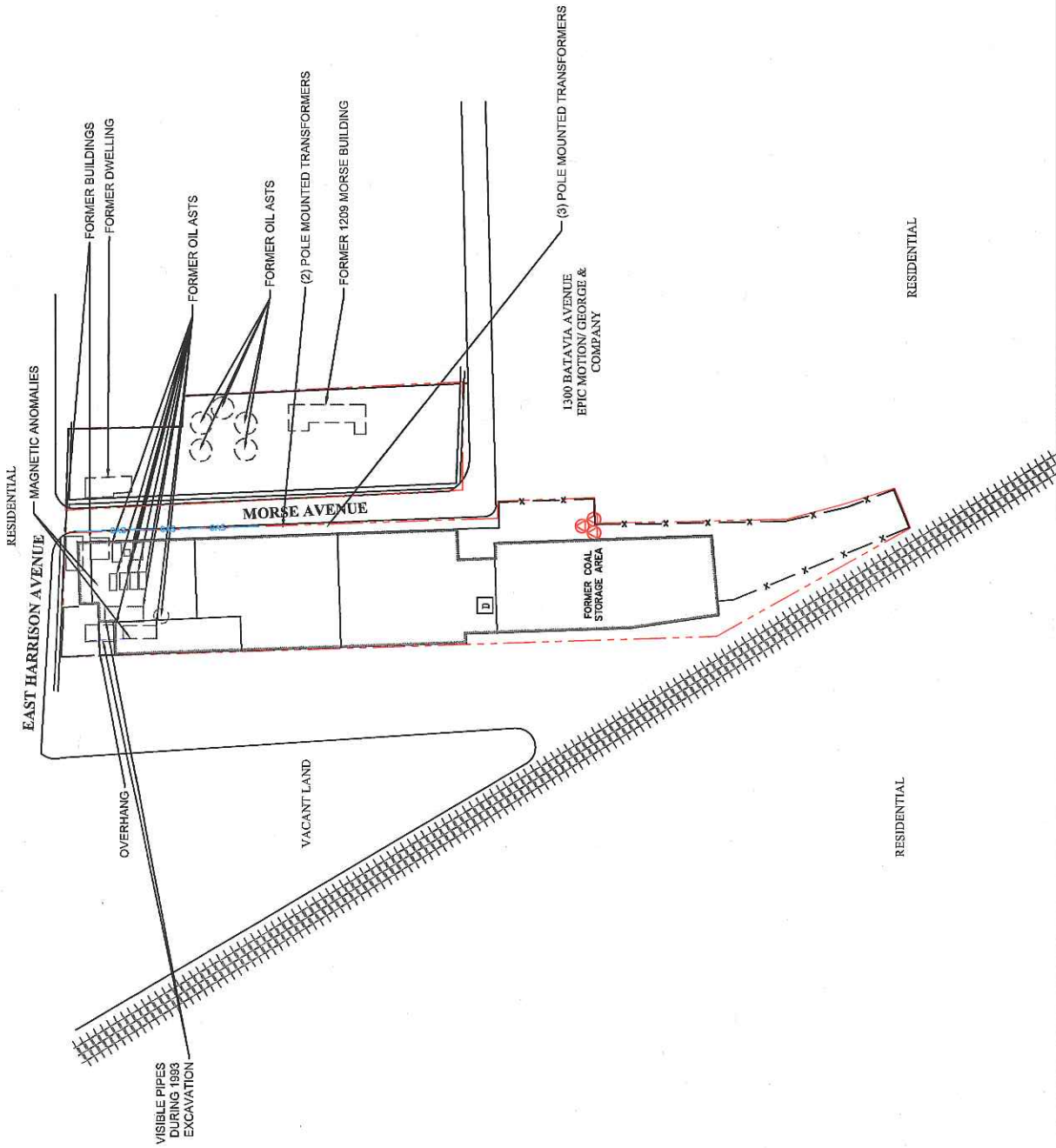


FIGURE 1
PROPERTY VICINITY MAP
USGS, 7.5 MINUTE SERIES
ROYAL OAK, MI QUADRANGLE, 1996.





LEGEND:

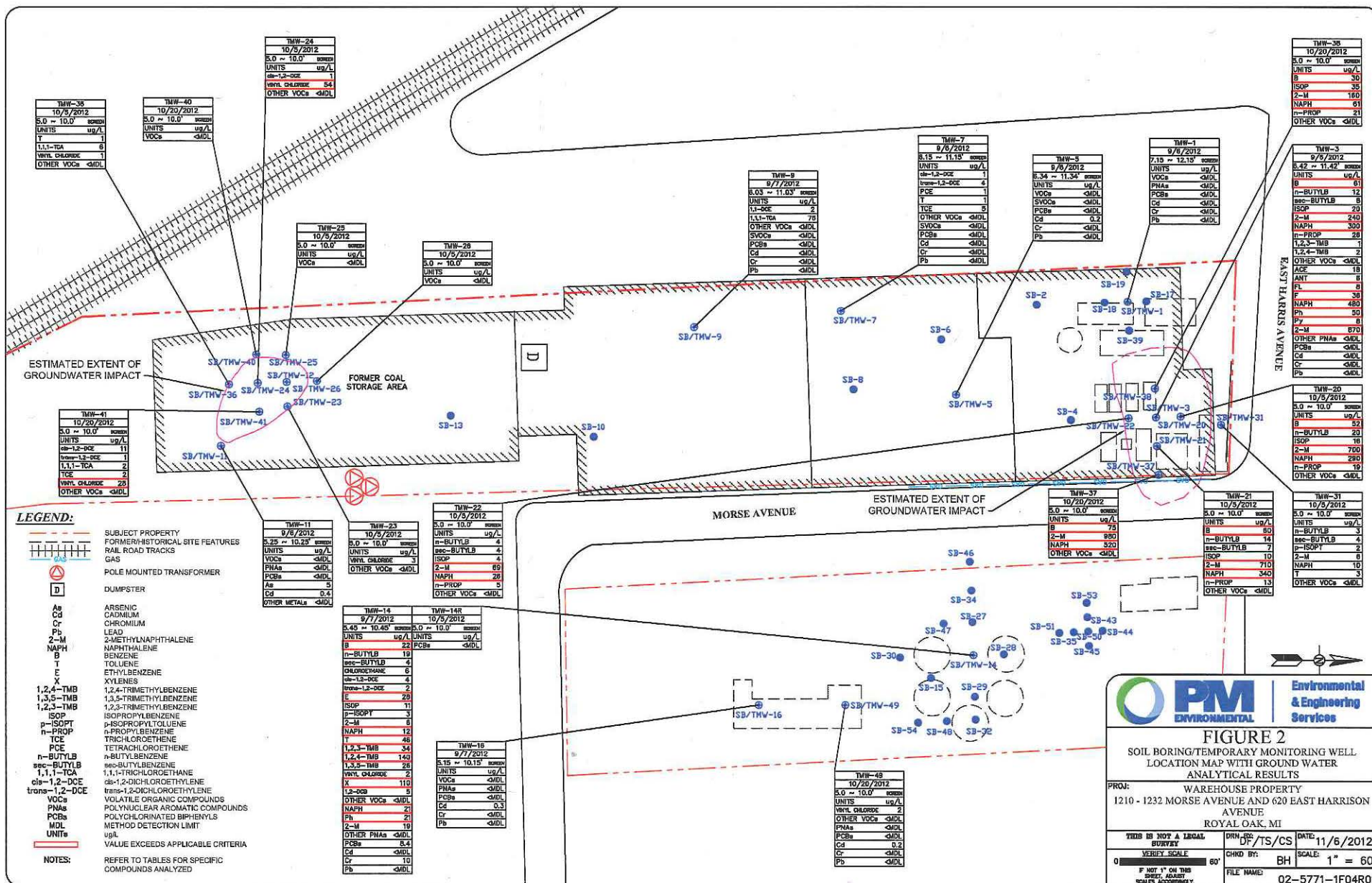
- SUBJECT PROPERTY
- FENCE
- RAILROAD TRACKS
- GAS
- POLE MOUNTED TRANSFORMER
- DUMPSTER

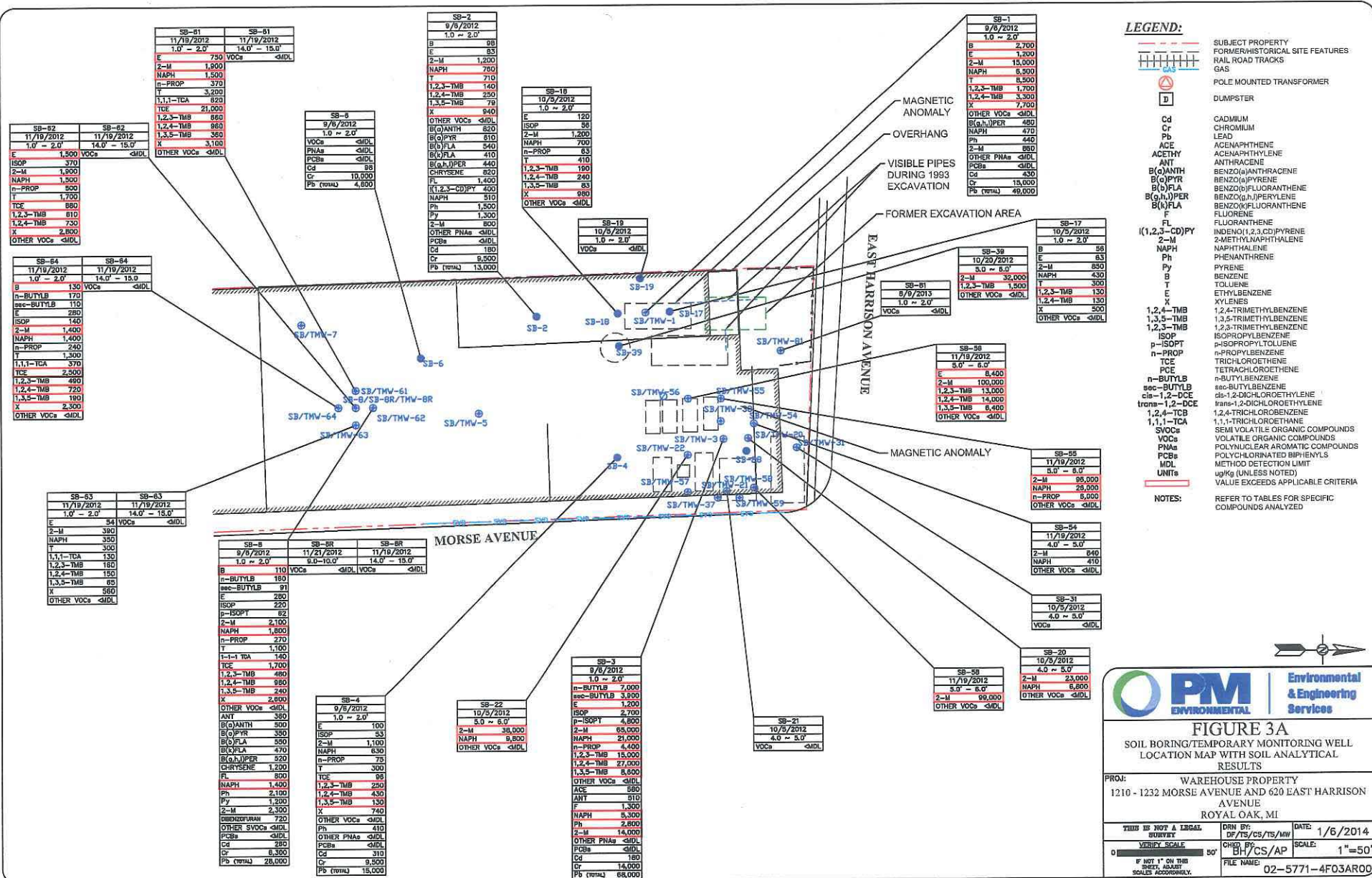


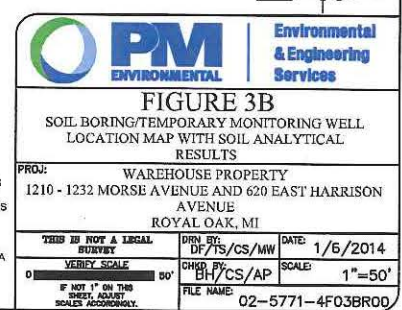
FIGURE 2

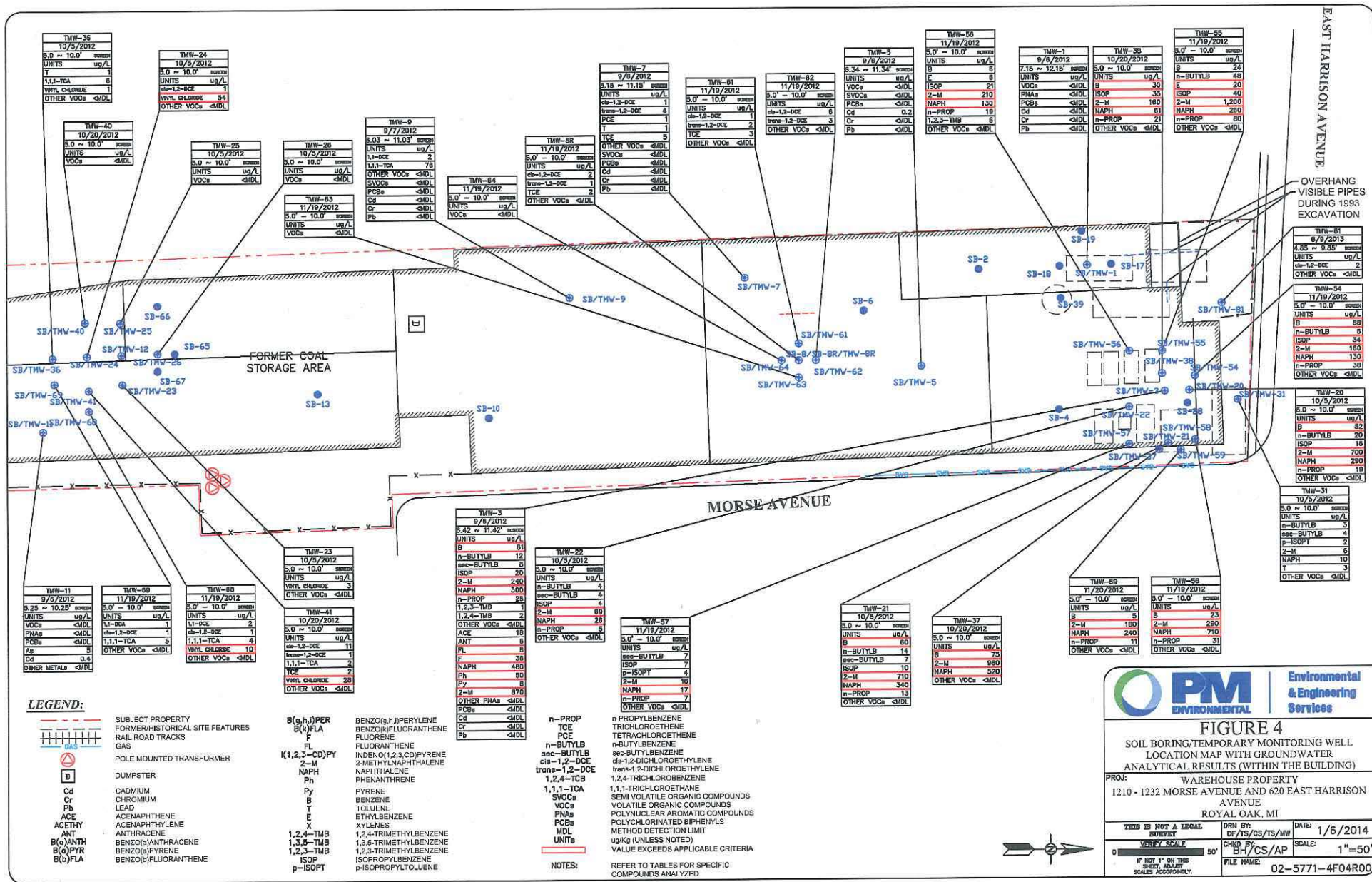
GENERALIZED DIAGRAM OF THE SUBJECT
PROPERTY AND ADJOINING PROPERTIES

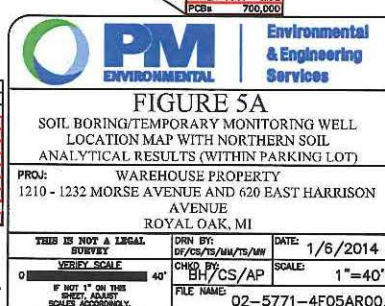
FROM: WAREHOUSE PROPERTY 1210 - 1212 MORSE AVENUE AND 620 EAST HARRISON AVENUE ROYAL OAK, MI		DATE: 1/6/2014	
THIS IS NOT A FINAL DESIGN	DR: JTS/MW	CHG: PC/AP	FILE NAME: 02-5771-4F02R00
VERTICAL SCALE 1"=120'	SCALE: 1"=120'		

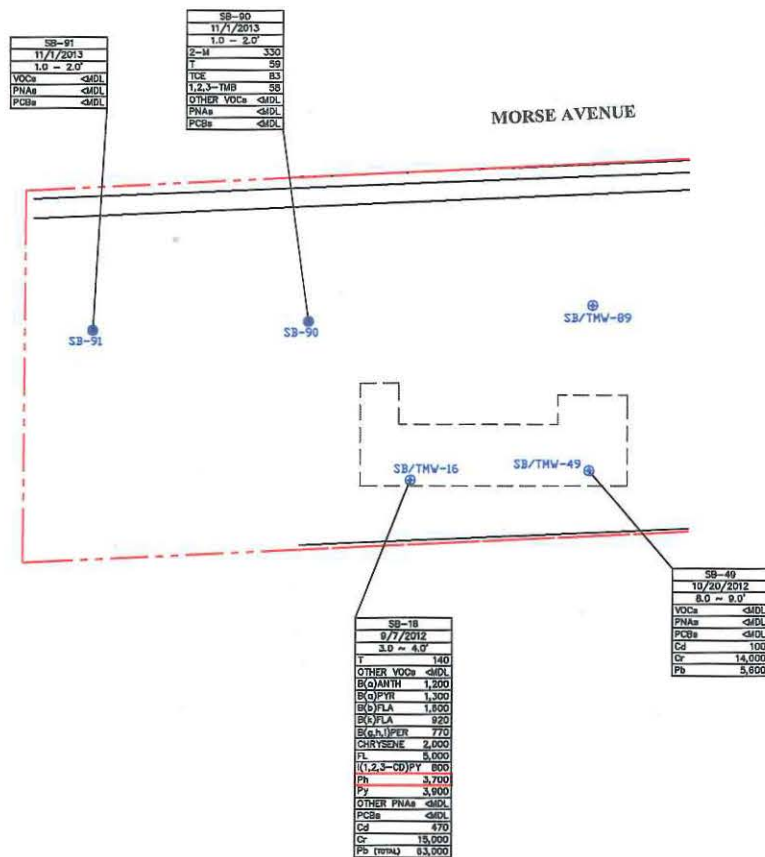












LEGEND:

	SUBJECT PROPERTY
	FORMER/HISTORICAL SITE FEATURES
	RAIL ROAD TRACKS
	GAS
	POLE MOUNTED TRANSFORMER
	DUMPSTER
	SOIL BORING
	SOIL BORING / TEMPORARY MONITORING WELL
	CADMIUM
	CHROMIUM
	LEAD
	BENZO(a)ANTHRACENE
	BENZO(b)PYRENE
	BENZO(b)FLUORANTHENE
	BENZO(a,h)PERYLENE
	BENZO(k)FLUORANTHENE
	FLUORANTHENE
	INDENO(1,2,3-CD)PYRENE
	2-METHYLNAPHTHALENE
	PHENANTHRENE
	PYRENE
	TOLUENE
	1,2,3-TRIMETHYLBENZENE
	TRICHLOROETHENE
	VOLATILE ORGANIC COMPOUNDS
	POLYNUCLEAR AROMATIC COMPOUNDS
	POLYCHLORINATED BIPHENYLS
	METHOD DETECTION LIMIT
	ug/Kg (UNLESS NOTED)
	VALUE EXCEEDS APPLICABLE CRITERIA
NOTES: REFER TO TABLES FOR SPECIFIC COMPOUNDS ANALYZED	



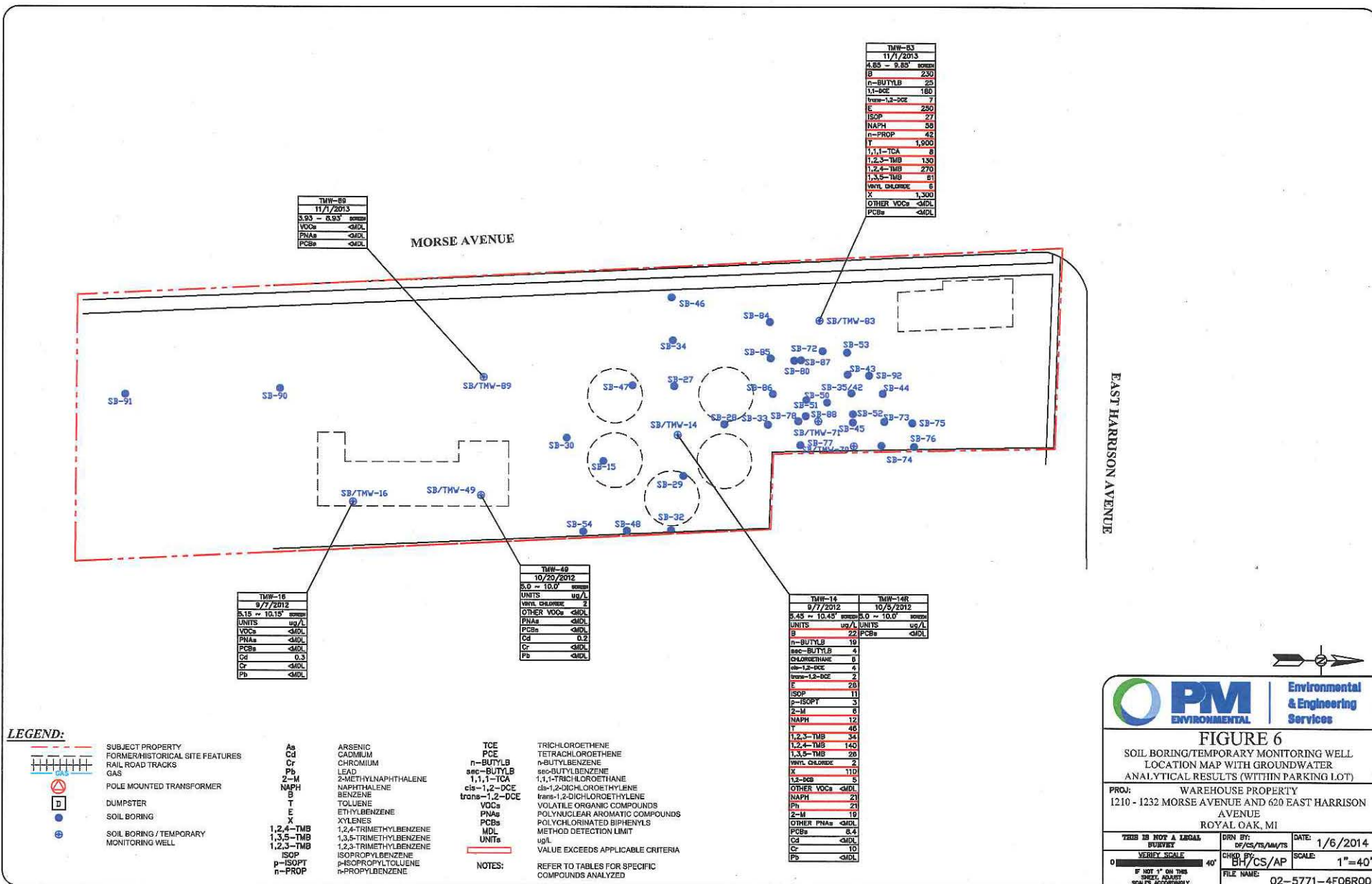


TABLE 1 (2 OF 2)
SUMMARY OF SOIL ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
11219-1232 HORSE AVENUE, ROYAL OAK, MICHIGAN
PM PROJECT# 626-9171-1

[illegible]

Applicable CPT codes: 85025, 85026, 85027, 85028, 85029, 85030, 85031, 85032, 85033, 85034, 85035, 85036, 85037, 85038, 85039, 85040, 85041, 85042, 85043, 85044, 85045, 85046, 85047, 85048, 85049, 85050, 85051, 85052, 85053, 85054, 85055, 85056, 85057, 85058, 85059, 85060, 85061, 85062, 85063, 85064, 85065, 85066, 85067, 85068, 85069, 85070, 85071, 85072, 85073, 85074, 85075, 85076, 85077, 85078, 85079, 85080, 85081, 85082, 85083, 85084, 85085, 85086, 85087, 85088, 85089, 85090, 85091, 85092, 85093, 85094, 85095, 85096, 85097, 85098, 85099, 85100, 85101, 85102, 85103, 85104, 85105, 85106, 85107, 85108, 85109, 85110, 85111, 85112, 85113, 85114, 85115, 85116, 85117, 85118, 85119, 85120, 85121, 85122, 85123, 85124, 85125, 85126, 85127, 85128, 85129, 85130, 85131, 85132, 85133, 85134, 85135, 85136, 85137, 85138, 85139, 85140, 85141, 85142, 85143, 85144, 85145, 85146, 85147, 85148, 85149, 85150, 85151, 85152, 85153, 85154, 85155, 85156, 85157, 85158, 85159, 85160, 85161, 85162, 85163, 85164, 85165, 85166, 85167, 85168, 85169, 85170, 85171, 85172, 85173, 85174, 85175, 85176, 85177, 85178, 85179, 85180, 85181, 85182, 85183, 85184, 85185, 85186, 85187, 85188, 85189, 85190, 85191, 85192, 85193, 85194, 85195, 85196, 85197, 85198, 85199, 85200, 85201, 85202, 85203, 85204, 85205, 85206, 85207, 85208, 85209, 85210, 85211, 85212, 85213, 85214, 85215, 85216, 85217, 85218, 85219, 85220, 85221, 85222, 85223, 85224, 85225, 85226, 85227, 85228, 85229, 85230, 85231, 85232, 85233, 85234, 85235, 85236, 85237, 85238, 85239, 85240, 85241, 85242, 85243, 85244, 85245, 85246, 85247, 85248, 85249, 85250, 85251, 85252, 85253, 85254, 85255, 85256, 85257, 85258, 85259, 85260, 85261, 85262, 85263, 85264, 85265, 85266, 85267, 85268, 85269, 85270, 85271, 85272, 85273, 85274, 85275, 85276, 85277, 85278, 85279, 85280, 85281, 85282, 85283, 85284, 85285, 85286, 85287, 85288, 85289, 85290, 85291, 85292, 85293, 85294, 85295, 85296, 85297, 85298, 85299, 85300, 85301, 85302, 85303, 85304, 85305, 85306, 85307, 85308, 85309, 85310, 85311, 85312, 85313, 85314, 85315, 85316, 85317, 85318, 85319, 85320, 85321, 85322, 85323, 85324, 85325, 85326, 85327, 85328, 85329, 85330, 85331, 85332, 85333, 85334, 85335, 85336, 85337, 85338, 85339, 85340, 85341, 85342, 85343, 85344, 85345, 85346, 85347, 85348, 85349, 85350, 85351, 85352, 85353, 85354, 85355, 85356, 85357, 85358, 85359, 85360, 85361, 85362, 85363, 85364, 85365, 85366, 85367, 85368, 85369, 85370, 85371, 85372, 85373, 85374, 85375, 85376, 85377, 85378, 85379, 85380, 85381, 85382, 85383, 85384, 85385, 85386, 85387, 85388, 85389, 85390, 85391, 85392, 85393, 85394, 85395, 85396, 85397, 85398, 85399, 85400, 85401, 85402, 85403, 85404, 85405, 85406, 85407, 85408, 85409, 85410, 85411, 85412, 85413, 85414, 85415, 85416, 85417, 85418, 85419, 85420, 85421, 85422, 85423, 85424, 85425, 85426, 85427, 85428, 85429, 85430, 85431, 85432, 85433, 85434, 85435, 85436, 85437, 85438, 85439, 85440, 85441, 85442, 85443, 85444, 85445, 85446, 85447, 85448, 85449, 85450, 85451, 85452, 85453, 85454, 85455, 85456, 85457, 85458, 85459, 85460, 85461, 85462, 85463, 85464, 85465, 85466, 85467, 85468, 85469, 85470, 85471, 85472, 85473, 85474, 85475, 85476, 85477, 85478, 85479, 85480, 85481, 85482, 85483, 85484, 85485, 85486, 85487, 85488, 85489, 85490, 85491, 85492, 85493, 85494, 85495, 85496, 85497, 85498, 85499, 85500, 85501, 85502, 85503, 85504, 85505, 85506, 85507, 85508, 85509, 85510, 85511, 85512, 85513, 85514, 85515, 85516, 85517, 85518, 85519, 85520, 85521, 85522, 85523, 85524, 85525, 85526, 85527, 85528, 85529, 85530, 85531, 85532, 85533, 85534, 85535, 85536, 85537, 85538, 85539, 85540, 85541, 85542, 85543, 85544, 85545, 85546, 85547, 85548, 85549, 85550, 85551, 85552, 85553, 85554, 85555, 85556, 85557, 85558, 85559, 85560, 85561, 85562, 85563, 85564, 85565, 85566, 85567, 85568, 85569, 85570, 85571, 85572, 85573, 85574, 85575, 85576, 85577, 85578, 85579, 85580, 85581, 85582, 85583, 85584, 85585, 85586, 85587, 85588, 85589, 85590, 85591, 85592, 85593, 85594, 85595, 85596, 85597, 85598, 85599, 85600, 85601, 85602, 85603, 85604, 85605, 85606, 85607, 85608,

TABLE 7 (Continued)

Applicable Criterion/RBSL Exceeded
Value Exceeds Applicable Criterion/RBSL
Below Grade Surface (feet)
bgs

TABLE 3 (Page 1 of 1)
SUMMARY OF SOIL ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS AND METALS (Cadmium, Chromium, and Lead)
1210-1232 MORSE AVENUE, ROYAL OAK, MICHIGAN
PM PROJECT # 02-5771-1

Polychlorinated Biphenyls (PCBs) & Metals (Cadmium, Chromium, & Lead) (µg/Kg)			Polychlorinated Biphenyls	Cadmium	Chromium	Lead		
Chemical Abstract Service Number (CAS#)			1336363	7440439	16065831	7439921		
Sample ID	Sample Date	Sample Depth (bgs)	PCBs	Metals				
				Total ¹	Coarse Fraction	Fine Fraction		
SB-1	08/09/12	1'-2'	<330	430	15,000	45,000	NA	NA
SB-2	08/09/12	1'-2'	<330	180	9,500	13,000	NA	NA
SB-3	08/09/12	1'-2'	<330	180	14,000	65,000	NA	NA
SB-4	08/09/12	1'-2'	<330	310	9,500	15,000	NA	NA
SB-6	08/09/12	1'-2'	<330	88	10,000	4,800	NA	NA
SB-8	08/09/12	1'-2'	<330	280	6,300	25,000	NA	NA
SB-10	08/07/12	1'-2'	<330	71	11,000	3,000	NA	NA
SB-11	08/06/12	1'-2'	<330	See Table 4				
SB-12	09/06/12	1'-2'	<330					
SB-13	08/06/12	1'-2'	<330					
SB-14	09/07/12	2'-3'	7,600	420	15,000	130,000	58,200	47,300
SB-15	08/07/12	2'-3'	18,000	210	10,000	13,000	NA	NA
SB-16	08/07/12	3'-4'	<330	470	15,000	63,000	NA	NA
SB-27	10/05/12	2'-3'	1,800	NA	NA	NA	NA	NA
SB-28	10/05/12	3'-4'	3,800	NA	NA	NA	NA	NA
SB-29	10/05/12	2'-3'	4,400	NA	NA	NA	NA	NA
SB-30	10/05/12	2'-3'	<330	NA	NA	NA	NA	NA
SB-32	10/05/12	2'-3'	5,100	NA	NA	NA	NA	NA
SB-33	10/05/12	3'-4'	2,100	NA	NA	NA	NA	NA
SB-34	10/05/12	2'-3'	6,600	NA	NA	NA	NA	NA
SB-35	10/05/12	4'-5'	160,000	NA	NA	NA	NA	NA
SB-42	10/20/12	10'-11'	<330	NA	NA	NA	NA	NA
SB-43	10/20/12	4'-5'	17,000	NA	NA	NA	NA	NA
SB-44	10/20/12	1'-2'	790	NA	NA	NA	NA	NA
SB-45	10/20/12	3'-4'	150,000	NA	NA	NA	NA	NA
SB-46	10/20/12	2'-3'	1,100	NA	NA	NA	NA	NA
SB-47	10/20/12	3'-4'	<330	NA	NA	NA	NA	NA
SB-48	10/20/12	5'-6'	16,000	NA	NA	NA	NA	NA
SB-49	10/20/12	8'-9'	<330	100	14,000	5,800	NA	NA
SB-50	10/20/12	4'-5'	175,000	NA	NA	NA	NA	NA
SB-51	10/20/12	4'-5'	82,000	NA	NA	NA	NA	NA
SB-52	10/20/12	2'-3'	145,000	NA	NA	NA	NA	NA
SB-53	10/20/12	3'-4'	<330	NA	NA	NA	NA	NA
SB-54	10/20/12	4'-5'	<330	NA	NA	NA	NA	NA
SB-70	11/20/12	1'-2'	31,000	NA	NA	NA	NA	NA
SB-70	11/20/12	4'-5'	130,000	NA	NA	NA	NA	NA
SB-71	11/20/12	1'-2'	200,000	NA	NA	NA	NA	NA
SB-71	11/20/12	2'-3'	190,000	NA	NA	NA	NA	NA
SB-72	11/20/12	1'-2'	42,000	NA	NA	NA	NA	NA
SB-72	11/20/12	5'-6'	<330	NA	NA	NA	NA	NA
SB-73	11/20/12	1'-2'	16,000	NA	NA	NA	NA	NA
SB-73	11/20/12	4'-5'	<330	NA	NA	NA	NA	NA
SB-74	11/20/12	1'-2'	700,000	NA	NA	NA	NA	NA
SB-74	11/20/12	4'-5'	13,000	NA	NA	NA	NA	NA
SB-75	11/20/12	1'-2'	22,000	NA	NA	NA	NA	NA
SB-75	11/20/12	4'-5'	650	NA	NA	NA	NA	NA
SB-77	11/20/12	1'-2'	13,000	NA	NA	NA	NA	NA
SB-77	11/20/12	4'-5'	70,000	NA	NA	NA	NA	NA
SB-78	11/20/12	1'-2'	310,000	NA	NA	NA	NA	NA
SB-78	11/20/12	4'-5'	100,000	NA	NA	NA	NA	NA
SB-80	11/20/12	1'-2'	96,000	NA	NA	NA	NA	NA
SB-80	11/20/12	4'-5'	29,000	NA	NA	NA	NA	NA
SB-82	11/01/13	1'-2'	35,000	NA	NA	NA	NA	NA
SB-82	11/01/13	5'-6'	7,600	NA	NA	NA	NA	NA
SB-83	11/01/13	1'-2'	<330	NA	NA	NA	NA	NA
SB-84	11/01/13	1'-2'	10,000	NA	NA	NA	NA	NA
SB-84	11/01/13	5'-6'	15,000	NA	NA	NA	NA	NA
SB-85	11/01/13	1'-2'	75,000	NA	NA	NA	NA	NA
SB-85	11/01/13	4'-5'	25,000	NA	NA	NA	NA	NA
SB-86	11/01/13	1'-2'	75,000	NA	NA	NA	NA	NA
SB-86	11/01/13	5'-6'	30,000	NA	NA	NA	NA	NA
SB-87	11/01/13	11'-12'	<330	NA	NA	NA	NA	NA
SB-88	11/01/13	9'-10'	<330	NA	NA	NA	NA	NA
SB-90	11/01/13	1'-2'	<330	NA	NA	NA	NA	NA
SB-91	11/01/13	1'-2'	<330	NA	NA	NA	NA	NA

Operational Memorandum No. 1: Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels (RBSLs),
Attachment 1: Soil Tables 2 and 3 Residential and Nonresidential Part 211 Generic Cleanup Criteria and Screening Levels; Part 213 Tier 1 RBSLs, March
28, 2011

Residential (µg/Kg)								
Statewide Default Background Levels	NA	1,200	15,000			21,000		
Drinking Water Protection (Res DWP)	NL	6,000	32,400	760,000	700,000	700,000		
Groundwater Surface Water Interface Protection (GSIP)	NL	(5X)	3,800	(3X)	(3X)	(3X)	(3X)	(3X)
GSIP Human Drinking Water	NA	(5X)	(3X)	(3X)	(3X)	(3X)	(3X)	(3X)
Groundwater Contact Protection (GCP)	NL	2.3E+08	1.4E+08	ID	ID	ID	ID	ID
Soil Volatilization to Indoor Air Inhalation (Res SVI)	3.6E+08	NL	NL	NL	NL	NL	NL	NL
Ambient Air Infinite Source Volatile Soil Inhalation (Res VSI)	245,000	NL	NL	NL	NL	NL	NL	NL
Ambient Air Finite VSI for 5 Meter Source Thickness	7.9E+09	NL	NL	NL	NL	NL	NL	NL
Ambient Air Finite VSI for 2 Meter Source Thickness	7.9E+06	NL	NL	NL	NL	NL	NL	NL
Ambient Air Particulate Soil Inhalation (Res PSI)	6.2E+06	1.75E+06	260,000	NA	NA	1.6E+04		
Direct Contact (Res DC)	(T)	\$50,000	2.50E+06	490,000	480,000	420,000		
Nonresidential (µg/Kg)								
Drinking Water Protection (Nonres DWP)	NL	6,000	10,000	700,000	700,000	700,000		
Soil Volatilization to Indoor Air Inhalation (Nonres SVI)	1.6E+07	NL	NL	NL	NL	NL	NL	NL
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)	810,000	NL	NL	NL	NL	NL	NL	NL
Ambient Air Finite VSI for 5 Meter Source Thickness	2.0E+07	NL	NL	NL	NL	NL	NL	NL
Ambient Air Finite VSI for 2 Meter Source Thickness	2.0E+07	NL	NL	NL	NL	NL	NL	NL
Ambient Air Particulate Soil Inhalation (Nonres PSI)	6.0E+06	2.2E+06	240,000	NA	NA	6.4E+07		
Direct Contact (Nonres DC)	(T)	2.1E+06	9.2E+06	900,000 (DQ)	900,000 (DQ)	900,000 (DQ)		
Screening Levels (µg/Kg)								
Soil Saturation Concentration Screening Levels (C _{sat})	NA	NA	NA	NA	NA	NA	NA	NA

(7) Refer to the Toxic Substances Control Act (TSCA), 40 CFR 761, Subparts D and G, as amended, to determine the applicability of TSCA cleanup standards. Alternatives to compliance with the standards listed below are possible under Subpart D. New Releases may be subject to the standards identified in Subpart G. Use Part 201 soil direct contact criteria in the table below where TSCA standards are not applicable.

LAND USE CATEGORY	TSCA, Subpart D	Part 201
Residential	1,000 µg/Kg, or	4,000 µg/Kg
Nonresidential	10,000 µg/Kg if	16,000 µg/Kg

Applicable Criteria Exceeded
BOLD Value Exceeds Applicable Criteria
bgs Below Grade Surface (feet)
1 Maximum of analyzed or calculated total lead value.

TABLE 4 (Page 1 of 1)
SUMMARY OF SOIL ANALYTICAL RESULTS
METALS
1210-132 MORSE AVENUE, ROYAL OAK, MICHIGAN
PM PROJECT # 02-5771-1

METALS (µg/Kg)			Arsenic	Barium	Cadmium	Chromium	Copper	Lead			Mercury	Selenium	Silver	Zinc
								Total ¹	Coarse Fraction	Fine Fraction				
Chemical Abstract Service Number (CAS#)			7440382	7440393	7440439	16065831	7440508	7439921			7439976	7782492	7440224	7440666
Sample ID	Sample Date	Sample Depth (bgs)												
SB-11	09/06/12	1-2'	8,400	48,000	730	40,000	18,000	57,000	NA	NA	<50	1,000	<100	150,000
SB-12	09/06/12	1-2'	7,300	43,000	430	12,000	18,000	230,000	29,700	72,800	68	1,600	<100	65,000
SB-13	09/06/12	1-2'	2,900	20,000	170	11,000	4,000	10,000	NA	NA	<50	250	<100	33,000
Operational Memorandum No. 1: Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels (RBSLs), Attachment 1: Soil Tables 2 and 3 Residential and Nonresidential Part 201 Generic Cleanup Criteria and Screening Levels; Part 213 Tier 1 RBSLs, March 25, 2011														
Residential (µg/Kg)														
Statewide Default Background Levels			5,800	75,000	1,200	18,000	32,000	21,000			130	410	1,000	47,000
Drinking Water Protection (DWP)			4,600	1.30E+06	6,000	30,000	5.80E+06	700,000	700,000	700,000	1,700	4,000	4,500	2.40E+06
Groundwater Surface Water Interface Protection (GSIP)			4,600	{G}	{G,X}	3,300	{G}	{G,X}	{G,X}	{G,X}	50 {M}; 1.2	400	100 {M}; 27	{G}
GSIP Human Drinking Water			NA	{G,X}	{G,X}	{G,X}	{G}	{G,X}	{G,X}	{G,X}	NA	NA	NA	{G}
Groundwater Contact Protection (GCP)			2.00E+06	1.0E+9 {D}	2.30E+08	1.40E+08	1.0E+9 {D}	ID	ID	ID	47,000	7.80E+07	2.00E+08	1.0E+9 {D}
Soil Volatilization to Indoor Air Inhalation (SVII)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	48,000	NLV	NLV	NLV
Ambient Air Infinite Source Volatile Soil Inhalation (VSI)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV
Ambient Air Finite VSI for 5 Meter Source Thickness			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV
Ambient Air Finite VSI for 2 Meter Source Thickness			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	52,000	NLV	NLV	NLV
Ambient Air Particulate Soil Inhalation (PSI)			7.20E+05	3.30E+08	1.70E+06	2.60E+05	1.30E+08	NA	NA	1.0E+08	2.00E+07	1.30E+08	6.70E+06	ID
Direct Contact (DC)			7,600	3.70E+07	5.50E+05	2.50E+06	2.00E+07	400,000	400,000	400,000	1.60E+05	2.60E+06	2.50E+06	1.70E+08
Nonresidential (µg/Kg)														
Drinking Water Protection (Nonres DWP)			4,600	1.30E+06	6,000	30,000	5.80E+06	700,000	700,000	700,000	1,700	4,000	4,500	5.00E+06
Soil Volatilization to Indoor Air Inhalation (Nonres SVII)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	89,000	NLV	NLV	NLV
Ambient Air Infinite Source Volatile Soil Inhalation (Nonres VSI)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	62,000	NLV	NLV	NLV
Ambient Air Finite VSI for 5 Meter Source Thickness			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	62,000	NLV	NLV	NLV
Ambient Air Finite VSI for 2 Meter Source Thickness			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	62,000	NLV	NLV	NLV
Ambient Air Particulate Soil Inhalation (Nonres PSI)			9.10E+05	1.50E+08	2.20E+06	2.40E+05	5.90E+07	NA	NA	4.4E+07	8.80E+06	5.90E+07	2.90E+06	ID
Direct Contact (Nonres DC)			37,000	1.30E+08	2.10E+06	9.20E+06	7.30E+07	900,000 (DD)	900,000 (DD)	900,000 (DD)	5.80E+05	9.60E+06	9.00E+06	6.30E+08
Screening Levels (µg/Kg)														
Soil Saturation Concentration Screening Levels (Csat)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



Applicable Criterion/RBSL Exceeded

BOLD Value Exceeds Applicable Criterion/RBSL

bgs Below Grade Surface (feet)

1 Maximum of analyzed or calculated total lead value.

TABLE 6 (1 OF 1)
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
POLYNUCLEAR AROMATIC COMPOUNDS AND SEMI VOLATILE ORGANIC COMPOUNDS
1210-1232 MORSE AVENUE, ROYAL OAK, MICHIGAN
PM PROJECT # 02-5771-1

POLYNUCLEAR AROMATIC COMPOUNDS AND SEMI VOLATILE ORGANIC COMPOUNDS (µg/L)				Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(e)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indene(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	2-Methylnaphthalene	Other SVOCs
Chemical Abstract Service Number (CAS#)				83329	208968	120127	56553	50328	205992	207089	191242	218019	53703	206440	86737	193395	91203	85018	129000	91576	Various
Sample ID	Sample Date	Screen Depth (bgs)	Depth to Groundwater (bgs)	PNAs																	
TMW-1	09/06/12	7.15-12.15	8.11	<5	<5	<5	<1	<1	<1	<1	<1	<1	<2	<1	<5	<2	<5	<2	<5	<5	NA
TMW-3	09/06/12	6.42-11.42	7.61	18	<5	6	<5	<5	<5	<5	<5	<5	<5	8	36	<5	480	50	8	870	NA
TMW-5	09/06/12	6.34-11.34	7.52	<5	<5	<5	<1	<1	<1	<1	<1	<1	<2	<1	<5	<2	<5	<2	<5	<5	ND
TMW-7	09/06/12	6.15-11.15	7.89	<5	<5	<5	<1	<1	<1	<1	<1	<1	<2	<1	<5	<2	<5	<2	<5	<5	ND
TMW-9	09/07/12	6.03-11.03	7.89	<5	<5	<5	<1	<1	<1	<1	<1	<1	<2	<1	<5	<2	<5	<2	<5	<5	ND
TMW-11	09/06/12	5.25-10.25	8.20	<5	<5	<5	<1	<1	<1	<1	<1	<1	<2	<1	<5	<2	<5	<2	<5	<5	NA
TMW-14	09/07/12	5.45-10.45	7.62	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	21	21	<10	19	NA
TMW-16	09/07/12	5.15-10.15	7.57	<5	<5	<5	<1	<1	<1	<1	<1	<1	<2	<1	<5	<2	<5	<2	<5	<5	NA
TMW-49	10/20/12	5.0-10.0	6.89	<5	<5	<5	<1	<1	<1	<1	<1	<1	<2	<1	<5	<2	<5	<2	<5	<5	NA
TMW-83	11/1/13	4.85-9.85	5.87	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TMW-89	11/1/13	3.93-8.93	5.68	<5	<5	<5	<1	<1	<1	<1	<1	<1	<2	<1	<5	<2	<5	<5	<2	<5	NA
Operational Memorandum No. 1: Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels (RBSLs), Attachment 1: Table 1. Groundwater: Residential and Nonresidential Part 201 Generic Cleanup Criteria and Screening Levels; Part 213 Tier 1 RBSLs, March 25, 2011																					
Residential/Nonresidential (µg/L)																					
Residential Drinking Water (Res DW)	1,300	52	43 (S)	2.1	5.0 (A)	1.5 (SAA)	1.0 (M)	1.0 (M)	1.0 (S)	2.0 (M)	210 (S)	880	2.0 (M)	520	52	140 (S)	280	Various			
Residential Health Based Drinking Water Values	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	Various
Nonresidential Drinking Water (Nonres DW)	3,800	150	43 (S)	6.5	5.0 (A)	1.5 (SAA)	1.0 (M)	1.0 (M)	1.0 (S)	2.0 (M)	210 (S)	2,000 (S)	2.0 (M)	1,500	150	140 (S)	750	Various			
Nonresidential Health Based Drinking Water Values	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	Various
Groundwater Surface Water Interface (GSI)	38	ID	ID	ID	ID	ID	NA	ID	ID	ID	1.8	12	ID	11	2.0 (M); 1.4	ID	19	Various			
GSI Final Acute Values (FAV) ¹	200	ID	ID	ID	ID	ID	NL	NL	ID	ID	26	220	ID	200	43	ID	ID	Various			
GSI Human Drinking Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Various			
Residential Groundwater Volatilization to Indoor Air Inhalation (Res GVII) ²	4,200 (S)	3,900 (S)	43 (S)	NLV	NLV	ID	NLV	NLV	ID	NLV	210 (S)	2,000 (S)	NLV	31,000 (S)	1,000 (S)	140 (S)	25,000 (S)	Various			
Nonresidential Groundwater Volatilization to Indoor Air Inhalation (Nonres GVII) ²	4,200 (S)	3,900 (S)	43 (S)	NLV	NLV	ID	NLV	NLV	ID	NLV	210 (S)	2,000 (S)	NLV	31,000 (S)	1,000 (S)	140 (S)	25,000 (S)	Various			
Groundwater Contact (GC)	4,200 (S)	3,900 (S)	43 (S)	9.4 (SAA)	1.0 (MAA)	1.5 (SAA)	1.0 (MAA)	1.0 (MAA)	1.0 (SAA)	2.0 (MAA)	210 (S)	2,000 (S)	2.0 (MAA)	31,000 (S)	1,000 (S)	140 (S)	25,000 (S)	Various			
Screening Levels (µg/L)																					
Residential Groundwater Vapor Intrusion Screening Levels ³	66,000	1,100	7,50E+05	NLV	NLV	ID	NLV	NLV	ID	NLV	4,20E+05	1,10E+05	NLV	200	210	4,40E+05	970	Various			
Nonresidential Groundwater Vapor Intrusion Screening Levels ³	94,000	1,600	1.1E+06	NLV	NLV	ID	NLV	NLV	ID	NLV	6.0E+05	1.5E+05	NLV	430	300	6.3E+05	1,400	Various			
Water Solubility	4,240	3,930	43.4	8.4	1.62	1.5	0.8	0.26	1.6	2.49	208	1,980	0.022	31,000	1,000	135	24,600	Various			
Flammability and Explosivity Screening Level	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	Various			
Acute Inhalation Screening Level	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	31,000 (S)	ID	ID	ID	Various	

Applicable Criteria/RBSL Exceeded

BOLD Value Exceeds Applicable Criteria

bgs Below Grade Surface (feet)

ND Not detected at levels above the laboratory Method Detection Limit (MDL) or Minimum Quantitative Level (MQL)

¹ Rule 323.1057 of Part 4 Water Quality Standards

² Tier 1 GVII Criteria based on 3 meter (or greater) groundwater depth

³ (Program Redesign 2009 Draft) Screening Levels based on depth to groundwater less than 3 meters and not in contact with building foundation

TABLE 7 (1 OF 1)
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
POLYCHLORINATED BIPHENYLS and METALS (Cadmium, Chromium, and Lead)
1210-1232 MORSE AVENUE, ROYAL OAK, MICHIGAN
PM PROJECT # 02-5771-1

Polychlorinated Biphenyls (PCBs) & Metals (Cadmium, Chromium, & Lead) (µg/L)				Polychlorinated Biphenyls	Cadmium	Chromium	Lead
Chemical Abstract Service Number (CAS#)				1336363	7440439	16065831	7439921
Sample ID	Sample Date	Screen Depth (bgs)	Depth to Groundwater (bgs)	PCBs	Metals		
TMW-1	9/6/12	7.15-12.15	8.11	<0.2	<0.2	<5	<3
TMW-3	9/6/12	6.42-11.42	7.61	<0.2	<0.2	<5	<3
TMW-5	9/6/12	6.34-11.34	7.62	<0.2	0.2	<5	<3
TMW-7	9/6/12	6.15-11.15	7.89	<0.2	<0.2	<5	<3
TMW-9	9/7/12	6.03-11.03	7.89	<0.2	<0.2	<5	<3
TMW-11	9/6/12	5.25-10.25	8.20	<0.2	See Table 8		
TMW-14	9/7/12	5.45-10.45	7.62	8.4*	<0.2	10	<3
TMW-14R	10/5/12	5.0-10.0	7.08	<0.2	NA	NA	NA
TMW-16	9/7/12	5.15-10.15	7.57	<0.2	0.3	<5	<3
TMW-49	10/20/12	5.0-10.0	6.89	<0.2	0.2	<5	<3
TMW-70	11/20/12	5.0-10.0	7.34	<0.2	NA	NA	NA
TMW-71	11/20/12	5.0-10.0	7.04	<0.2	NA	NA	NA
TMW-83	11/1/13	4.85-9.85	5.87	<0.2	NA	NA	NA
TMW-89	11/1/13	3.93-8.93	5.88	<0.2	NA	NA	NA
Operational Memorandum No. 1 Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels (RBSLs), Attachment 1: Table 1. Groundwater: Residential and Nonresidential Part 201 Generic Cleanup Criteria and Screening Levels; Part 213 Tier 1 RBSLs, March 25, 2011							
Residential/Nonresidential (µg/L)							
Residential Drinking Water (Res DW)				0.5 (A)	5.0 (A)	100 (A)	4.0 (L)
Residential Health Based Drinking Water Values				NL	NL	NL	NL
Nonresidential Drinking Water (Nonres DW)				0.5 (A)	5.0 (A)	100 (A)	4.0 (L)
Nonresidential Health Based Drinking Water Values				NL	NL	NL	NL
Groundwater Surface Water Interface (GSI)				0.2 (M); 2.0E-5	(G,X)	11	(G,X)
GSI Final Acute Values (FAV) ¹				ID	(G)	(G)	(G)
GSI Human Drinking Water				NA	2.5 (G,X)	120 (G,X)	14 (G,X)
Residential Groundwater Volatilization to Indoor Air Inhalation (Res GVII) ²				45 (S)	NLV	NLV	NLV
Nonresidential Groundwater Volatilization to Indoor Air Inhalation (Nonres GVII) ²				45 (S)	NLV	NLV	NLV
Groundwater Contact (GC)				3.3 (AA)	1.00E+05	4.00E+05	ID
Screening Levels (µg/L)							
Residential Groundwater Vapor Intrusion Screening Levels ³				4.5	NLV	NLV	NLV
Nonresidential Groundwater Vapor Intrusion Screening Levels ³				18	NLV	NLV	NLV
Water Solubility				44.7	NA	NA	NA
Flammability and Explosivity Screening Level				ID	ID	ID	ID
Acute Inhalation Screening Level				ID	ID	ID	ID

 Applicable Criteria/RBSL Exceeded

BOLD Value Exceeds Applicable Criteria

bgs Below Grade Surface (feet)

ND Not detected at levels above the laboratory Method Detection Limit (MDL) or Minimum Quantitative Level (MQL)

¹ Rule 323.1057 of Part 4 Water Quality Standards

² Tier 1 GVII Criteria based on 3 meter (or greater) groundwater depth

³ (Program Redesign 2009 Draft) Screening Levels based on depth to groundwater less than 3 meters and not in contact with building foundation

* Sample was recollected and filtered on 10/5/12

TABLE 8 (1 OF 1)
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
METALS
1210-1232 MORSE AVENUE, ROYAL OAK, MICHIGAN
PM PROJECT # 02-5771-1

METALS (µg/L)				Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Selenium	Silver	Zinc
Chemical Abstract Service Number (CAS#)				7440382	7440393	7440439	16065831	7440508	7439921	7439976	7782492	7440224	7440666
Sample ID	Sample Date	Screen Depth (bgs)	Depth to Groundwater (bgs)	Metals									
TMW-11	09/06/12	5.25-10.25	8.20	5	<100	0.4	<5	<4	<3	<0.2	<5	<0.2	<10
Operational Memorandum No. 1: Part 201 Cleanup Criteria and Part 213 Risk-based Screening Levels (RBSLs), Attachment 1: Table 1. Groundwater: Residential and Nonresidential Part 201 Generic Cleanup Criteria and Screening Levels; Part 213 Tier 1 RBSLs, March 25, 2011													
Residential/Nonresidential (µg/L)													
Residential Drinking Water (Res DW)	10 (A)	2,000 (A)	5.0 (A)	100 (A)	1,000 (E)	4.0 (L)	2.0 (A)	50 (A)	34	2,400			
Residential Health Based Drinking Water Values	NL	NL	NL	NL	1,400 (E)	NL	NL	NL	NL	NL			
Nonresidential Drinking Water (Nonres DW)	10 (A)	2,000 (A)	5.0 (A)	100 (A)	1,000 (E)	4.0 (L)	2.0 (A)	50 (A)	98	5,000 (E)			
Nonresidential Health Based Drinking Water Values	NL	NL	NL	NL	4,000 (E)	NL	NL	NL	NL	NL			
Groundwater Surface Water Interface (GSI)	10 (G)	(G)	(G,X)	11 (G)	(G)	(G,X)	0.0013	5	0.2 (M); 0.06	(G)			
GSI Final Acute Values (FAV) ¹	660 (G)	(G)	(G)	(G)	(G)	(G)	2.6 ²	120	1.1	(G)			
GSI Human Drinking Water	50	1,900 (G,X)	2.5 (G,X)	120 (G,X)	(G)	14 (G)	NA	NA	NA	(G)			
Residential Groundwater Volatilization to Indoor Air Inhalation (Res GVII) ²	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV			
Nonresidential Groundwater Volatilization to Indoor Air Inhalation (Nonres GVII) ²	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV			
Groundwater Contact (GC)	4,300	1.40E+07	1.90E+05	4.60E+05	7.40E+06	ID	56 (S)	9.70E+05	1.50E+06	1.10E+08			
Screening Levels (µg/L)													
Residential Groundwater Vapor Intrusion Screening Levels ³	NLV	NLV	NLV	NLV	NLV	NLV	ID	NLV	NLV	NLV			
Nonresidential Groundwater Vapor Intrusion Screening Levels ³	NLV	NLV	NLV	NLV	NLV	NLV	ID	NLV	NLV	NLV			
Water Solubility	NA	NA	NA	NA	NA	NA	56	NA	NA	NA			
Flammability and Explosivity Screening Level	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID			
Acute Inhalation Screening Level	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID			

 Applicable Criteria/RBSL Exceeded

BOLD Value Exceeds Applicable Criteria

bgs Below Grade Surface (feet)

ND Not detected at levels above the laboratory Method Detection Limit (MDL) or Minimum Quantitative Level (MQL)

¹ Rule 323.1057 of Part 4 Water Quality Standards

² Tier 1 GVII Criteria based on 3 meter (or greater) groundwater depth

³ (Program Redesign 2009 Draft) Screening Levels based on depth to groundwater less than 3 meters and not in contact with building foundation

Appendix D



ENVIRONMENTAL DATABASE SEARCH

1210, 1220, 1232 Morse Ave and 620 E Harrison Ave
1210, 1220, 1232 Morse Ave and 620 E Harrison Ave
Royal Oak, MI 48067

Inquiry Number: 03825735.2r
January 08, 2014

The EDR Radius Map™ Report



440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1210, 1220, 1232 MORSE AVE AND 620 E HARRISON AVE
ROYAL OAK, MI 48067

COORDINATES

Latitude (North): 42.4794000 - 42° 28' 45.84"
Longitude (West): 83.1380000 - 83° 8' 16.80"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 324262.6
UTM Y (Meters): 4705006.0
Elevation: 648 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 42083-D2 ROYAL OAK, MI
Most Recent Revision: 1996

East Map: 42083-D1 HIGHLAND PARK, MI
Most Recent Revision: 1983

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2012
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
BELL PLASTICS 1220 MORSE AVE ROYAL OAK, MI 48067	MI WDS	N/A
PRN SERVICES 1210 MORSE AVE ROYAL OAK, MI 48067	MI WDS	N/A
BELL PLASTICS 1220 MORSE AVE ROYAL OAK, MI 48067	RCRA NonGen / NLR FINDS	MID151364205

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal RCRA generators list

RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

MI SWF/LF..... Solid Waste Facilities Database

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

EXECUTIVE SUMMARY

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

MI BROWNFIELDS..... Brownfields and UST Site Database

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
MI HIST LF..... Inactive Solid Waste Facilities
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
MI CDL..... Clandestine Drug Lab Listing
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information
MI LIENS..... Lien List

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
MI SPILLS..... Pollution Emergency Alerting System

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
US MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
ICIS..... Integrated Compliance Information System

EXECUTIVE SUMMARY

PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
RAATS.....	RCRA Administrative Action Tracking System
RMP.....	Risk Management Plans
MI UIC.....	Underground Injection Wells Database
MI DRYCLEANERS.....	Drycleaning Establishments
MI NPDES.....	List of Active NPDES Permits
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
MI Financial Assurance.....	Financial Assurance Information Listing
MI COAL ASH.....	Coal Ash Disposal Sites
COAL ASH DOE.....	Steam-Electric Plant Operation Data
US FIN ASSUR.....	Financial Assurance Information
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
LEAD SMELTERS.....	Lead Smelter Sites
PCB TRANSFORMER.....	PCB Transformer Registration Database
PRP.....	Potentially Responsible Parties
EPA WATCH LIST.....	EPA WATCH LIST

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 09/10/2013 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
REICHHOLD CHEM INC	601 WOODWARD HEIGHTS	BLSSE 1/2 - 1 (0.696 mi.)	L49	57

EXECUTIVE SUMMARY

State- and tribal - equivalent CERCLIS

MI SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Quality's Contaminated Sites List on Diskette With Address.

A review of the MI SHWS list, as provided by EDR, and dated 10/01/2013 has revealed that there are 4 MI SHWS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
STEVE FAY Facility Status: See Leaking Underground Storage Tank Site Database	415 E HUDSON ST	NW 1/8 - 1/4 (0.135 mi.)	D17	19
WAYNE OAKLAND OIL CO Facility Status: See Leaking Underground Storage Tank Site Database	230 E HARRISON AVE	WNW 1/8 - 1/4 (0.209 mi.)	24	31
ROYAL OAK PROJECT Facility Status: Inactive - no actions taken to address contamination	4TH & LAFAYETTE	NW 1/2 - 1 (0.684 mi.)	48	56
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FERNDAL PLANT Facility Status: Inactive - no actions taken to address contamination	601 WOODWARD HEIGHTS BL	SE 1/2 - 1 (0.696 mi.)	L50	111

State and tribal leaking storage tank lists

MI LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's Leaking Underground Storage Tank (LUST) Database.

A review of the MI LUST list, as provided by EDR, and dated 11/01/2013 has revealed that there are 11 MI LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
A & M PROPERTIES Facility Status: Open	303 HARRISON	WNW 0 - 1/8 (0.118 mi.)	C13	16
STEVE FAY Facility Status: Open	415 E HUDSON ST	NW 1/8 - 1/4 (0.135 mi.)	D17	19
DESIGNED LANDSCAPE INC Facility Status: Closed	409 E HUDSON AVE	NW 1/8 - 1/4 (0.138 mi.)	D19	23
WAYNE OAKLAND OIL CO Facility Status: Open	230 E HARRISON AVE	WNW 1/8 - 1/4 (0.209 mi.)	24	31
INDUSTRIAL BUILDING Facility Status: Open	126 E HUDSON	WNW 1/4 - 1/2 (0.274 mi.)	H31	40
CITY OF ROYAL OAK DOWNTOWN DEV Facility Status: Closed	1312 S MAIN ST	WSW 1/4 - 1/2 (0.289 mi.)	34	41
ERB LUMBER CO INC Facility Status: Closed	905 S MAIN ST	NW 1/4 - 1/2 (0.333 mi.)	I37	44
SHELL STATION Facility Status: Open	735 S MAIN	NW 1/4 - 1/2 (0.366 mi.)	J38	45

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FORMER GASOLINE STATION Facility Status: Open	802 S MAIN ST	NW 1/4 - 1/2 (0.372 mi.)	J39	49
ROYAL AUTO REPAIR INC Facility Status: Open	1200 S WASHINGTON AVE	W 1/4 - 1/2 (0.410 mi.)	K42	51

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CITY OF PLEASANT RIDGE DPW Facility Status: Open	92 AMHERST RD	SSE 1/4 - 1/2 (0.421 mi.)	44	53

State and tribal registered storage tank lists

MI UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's Michigan UST database.

A review of the MI UST list, as provided by EDR, and dated 09/01/2013 has revealed that there are 6 MI UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
METROPOLITAN LOFTS LLC	322 E HARRISON AVE	WNW 0 - 1/8 (0.113 mi.)	C10	14
STEVE FAY	415 E HUDSON ST	NW 1/8 - 1/4 (0.135 mi.)	D17	19
DESIGNED LANDSCAPE INC	409 E HUDSON AVE	NW 1/8 - 1/4 (0.138 mi.)	D19	23
WAYNE OAKLAND OIL CO	230 E HARRISON AVE	WNW 1/8 - 1/4 (0.209 mi.)	24	31
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
INTERNATIONAL INDUSTRIAL CONTR	1500 IRVING ST	SE 1/8 - 1/4 (0.148 mi.)	20	24
GTE WALMET	404 E TEN MILE ROAD	SSE 1/8 - 1/4 (0.225 mi.)	F26	36

MI AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Natural Resources' Michigan AST database.

A review of the MI AST list, as provided by EDR, and dated 11/27/2013 has revealed that there is 1 MI AST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WAYNE OAKLAND OIL CO	230 E HARRISON AVE	WNW 1/8 - 1/4 (0.209 mi.)	24	31

State and tribal institutional control / engineering control registries

MI AUL: A listing of sites with institutional and/or engineering controls in place.

A review of the MI AUL list, as provided by EDR, and dated 03/26/2013 has revealed that there is 1 MI AUL site within approximately 0.5 miles of the target property.

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SHELL STATION	735 S MAIN	NW 1/4 - 1/2 (0.366 mi.)	J38	45

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

MI SWRCY: A listing of recycling center locations.

A review of the MI SWRCY list, as provided by EDR, and dated 11/24/2009 has revealed that there is 1 MI SWRCY site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ROYAL OAK WASTE & METAL	414 E HUDSON AVE	NNW 0 - 1/8 (0.123 mi.)	D15	18

Local Lists of Hazardous waste / Contaminated Sites

MI DEL SHWS: Sites that have been delisted or deleted from the List of Contaminated Sites. The available documentation for the site does support it's listing or the site no longer meets criteria specified in rules.

A review of the MI DEL SHWS list, as provided by EDR, and dated 08/01/2013 has revealed that there is 1 MI DEL SHWS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
C.M.SMILLIE	2660 BURDETTE AVE.	SE 1/2 - 1 (0.868 mi.)	51	113

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/10/2013 has revealed that there are 7 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MOTION INDUSTRIES INC	420 E PARENT AVE	W 0 - 1/8 (0.109 mi.)	B8	10
W D ZOBEL COMPANY	315 E PARENT AVE	W 0 - 1/8 (0.112 mi.)	B9	12
V & M CORP	322 E HARRISON AVE	WNW 0 - 1/8 (0.113 mi.)	C12	15
CITY OF ROYAL OAK POLICE DEPAR	303 E HARRISON AVE	WNW 0 - 1/8 (0.118 mi.)	C14	17
ROYAL METALS CO	310 E PARENT AVE	W 1/8 - 1/4 (0.167 mi.)	E21	26
CITY OF ROYAL OAK	LINCOLN AVE AND KNOWLESN	1/8 - 1/4 (0.212 mi.)	25	35
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WALMET DIV	404 E 10 MILE RD	SSE 1/8 - 1/4 (0.182 mi.)	F23	28

EXECUTIVE SUMMARY

MI BEA: Baseline Environmental Assessment.

A review of the MI BEA list, as provided by EDR, and dated 08/21/2013 has revealed that there are 20 MI BEA sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CARNWATH & SONS CONTRACTING PR	1200 KNOWLES STREET	NW 0 - 1/8 (0.025 mi.)	A5	9
STATION 3 LOFTS	333 EAST PARENT AVENUE	W 0 - 1/8 (0.102 mi.)	B6	10
STATION 3 LOFTS	333 E. PARENT AVENUE	W 0 - 1/8 (0.102 mi.)	B7	10
METROPOLITAN LOFTS, L.L.C.	322 EAST HARRISON	WNW 0 - 1/8 (0.113 mi.)	C11	14
A & M PROPERTIES	303 HARRISON	WNW 0 - 1/8 (0.118 mi.)	C13	16
JA - REED, LLC	415 EAST HUDSON	NW 1/8 - 1/4 (0.135 mi.)	D16	19
FIRST OF AMERICA BANK	302 EAST PARENT AVENUE	W 1/8 - 1/4 (0.171 mi.)	E22	27
WAYNE OAKLAND OIL CO	230 E HARRISON AVE	WNW 1/8 - 1/4 (0.209 mi.)	24	31
PATRICK REAL ESTATE PROPERTY	426 EAST LINCOLN AVENUE	NNW 1/8 - 1/4 (0.239 mi.)	G27	38
GEORGIA PACIFIC PLYWOOD COMPAN	126 EAST HUDSON	WNW 1/4 - 1/2 (0.274 mi.)	H30	39
LIGHT INDUSTRIAL BUILDING	120 EAST HUDSON	WNW 1/4 - 1/2 (0.281 mi.)	H32	41
HOLIDAY MARKET CATERING	1203 SOUTH MAIN STREET	W 1/4 - 1/2 (0.288 mi.)	33	41
PARKS DEVELOPMENT, LLC	916 SOUTH MAIN STREET	NW 1/4 - 1/2 (0.331 mi.)	I35	43
AMERICAN TRANSMISSIONS	802 SOUTH MAIN	NW 1/4 - 1/2 (0.372 mi.)	J40	50
ROYAL AUTO REPAIR, INC. (FORME	1200 SOUTH WASHINGTON A	W 1/4 - 1/2 (0.410 mi.)	K41	50
1022 S. WASHINGTON, LLC	1022 S. WASHINGTON	WNW 1/4 - 1/2 (0.420 mi.)	43	52
MICHIGAN 101, LLC	25352 WOODWARD AVENUE	WSW 1/4 - 1/2 (0.464 mi.)	46	55
TALON HOMES-PLEASANT RIDGE, LL	24000 WOODWARD AVENUE	SSW 1/4 - 1/2 (0.494 mi.)	47	55
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
I E & E	1300 BATAVIA AVE	ESE 0 - 1/8 (0.022 mi.)	4	9
TD 4TH STREET PROPERTIES, LLC	610-612 EAST 5TH STREET	N 1/4 - 1/2 (0.445 mi.)	45	54

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 2 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	415 E HUDSON AVE	NW 1/8 - 1/4 (0.135 mi.)	D18	23
Not reported	426 E LINCOLN AVE	NNW 1/8 - 1/4 (0.239 mi.)	G28	38

EXECUTIVE SUMMARY

EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there is 1 EDR US Hist Cleaners site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	423 E LINCOLN AVE	NNW 1/8 - 1/4 (0.242 mi.)	G29	39

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

MI RGA LUST: The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists.

A review of the MI RGA LUST list, as provided by EDR, has revealed that there are 12 MI RGA LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
A & M PROPERTIES	303 HARRISON	WNW 0 - 1/8 (0.118 mi.)	C13	16
STEVE FAY	415 E HUDSON ST	NW 1/8 - 1/4 (0.135 mi.)	D17	19
DESIGNED LANDSCAPE INC	409 E HUDSON AVE	NW 1/8 - 1/4 (0.138 mi.)	D19	23
WAYNE OAKLAND OIL CO	230 E HARRISON AVE	WNW 1/8 - 1/4 (0.209 mi.)	24	31
INDUSTRIAL BUILDING	126 E HUDSON	WNW 1/4 - 1/2 (0.274 mi.)	H31	40
CITY OF ROYAL OAK DOWNTOWN DEV	1312 S MAIN ST	WSW 1/4 - 1/2 (0.289 mi.)	34	41
Not reported	905 S MAIN STREET	NW 1/4 - 1/2 (0.333 mi.)	I36	43
ERB LUMBER CO INC	905 S MAIN ST	NW 1/4 - 1/2 (0.333 mi.)	I37	44
SHELL STATION	735 S MAIN	NW 1/4 - 1/2 (0.366 mi.)	J38	45
FORMER GASOLINE STATION	802 S MAIN ST	NW 1/4 - 1/2 (0.372 mi.)	J39	49
ROYAL AUTO REPAIR INC	1200 S WASHINGTON AVE	W 1/4 - 1/2 (0.410 mi.)	K42	51
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CITY OF PLEASANT RIDGE DPW	92 AMHERST RD	SSE 1/4 - 1/2 (0.421 mi.)	44	53

MI RGA HWS: The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists.

A review of the MI RGA HWS list, as provided by EDR, has revealed that there are 3 MI RGA HWS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
STEVE FAY	415 E HUDSON ST	NW 1/8 - 1/4 (0.135 mi.)	D17	19

EXECUTIVE SUMMARY

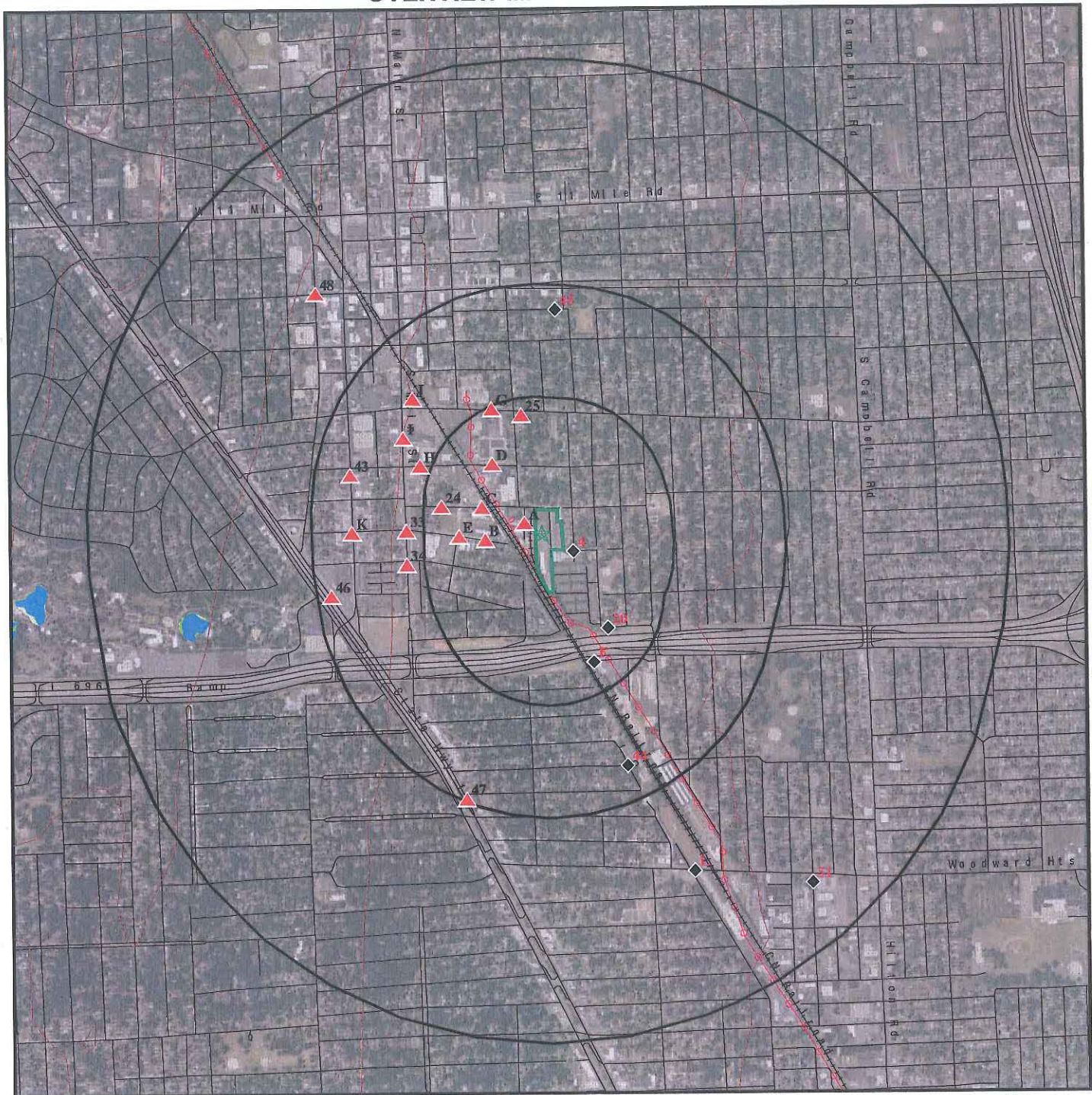
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>ROYAL OAK PROJECT</i>	<i>4TH & LAFAYETTE</i>	<i>NW 1/2 - 1 (0.684 mi.)</i>	<i>48</i>	<i>56</i>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>FERNDALE PLANT</i>	<i>601 WOODWARD HEIGHTS BLSSE 1/2 - 1 (0.696 mi.)</i>		<i>L50</i>	<i>111</i>


EXECUTIVE SUMMARY


Due to poor or inadequate address information, the following sites were not mapped. Count: 14 records.


<u>Site Name</u>	<u>Database(s)</u>
RAY & SONS AUTO REPAIR INC	MI SHWS, MI RGA HWS
	MI LUST, MI UST, MI RGA LUST
	MI LUST, MI UST, MI RGA LUST
DAVIS CARTAGE	RCRA NonGen / NLR
MI DEPT/TRANSPORTATION	RCRA-CESQG
VIOGOLD3, LLC	MI BEA
CITY OF ROYAL OAK	MI BEA
TIMOTHY PATRICK HOMES PROPERTY	MI BEA
WOODWARD GATEWAY LLC	MI BEA
MILFORD SAND & GRAVEL CO.	US MINES
	MI RGA LUST
	MI RGA HWS
	MI RGA LUST
	MI RGA LUST


OVERVIEW MAP - 03825735.2r




 Target Property

 Sites at elevations higher than or equal to the target property


 Sites at elevations lower than the target property


 Manufactured Gas Plants


 National Priority List Sites


 Dept. Defense Sites


 Indian Reservations BIA


 Power transmission lines

 Oil & Gas pipelines from USGS

 100-year flood zone

 500-year flood zone

 National Wetland Inventory

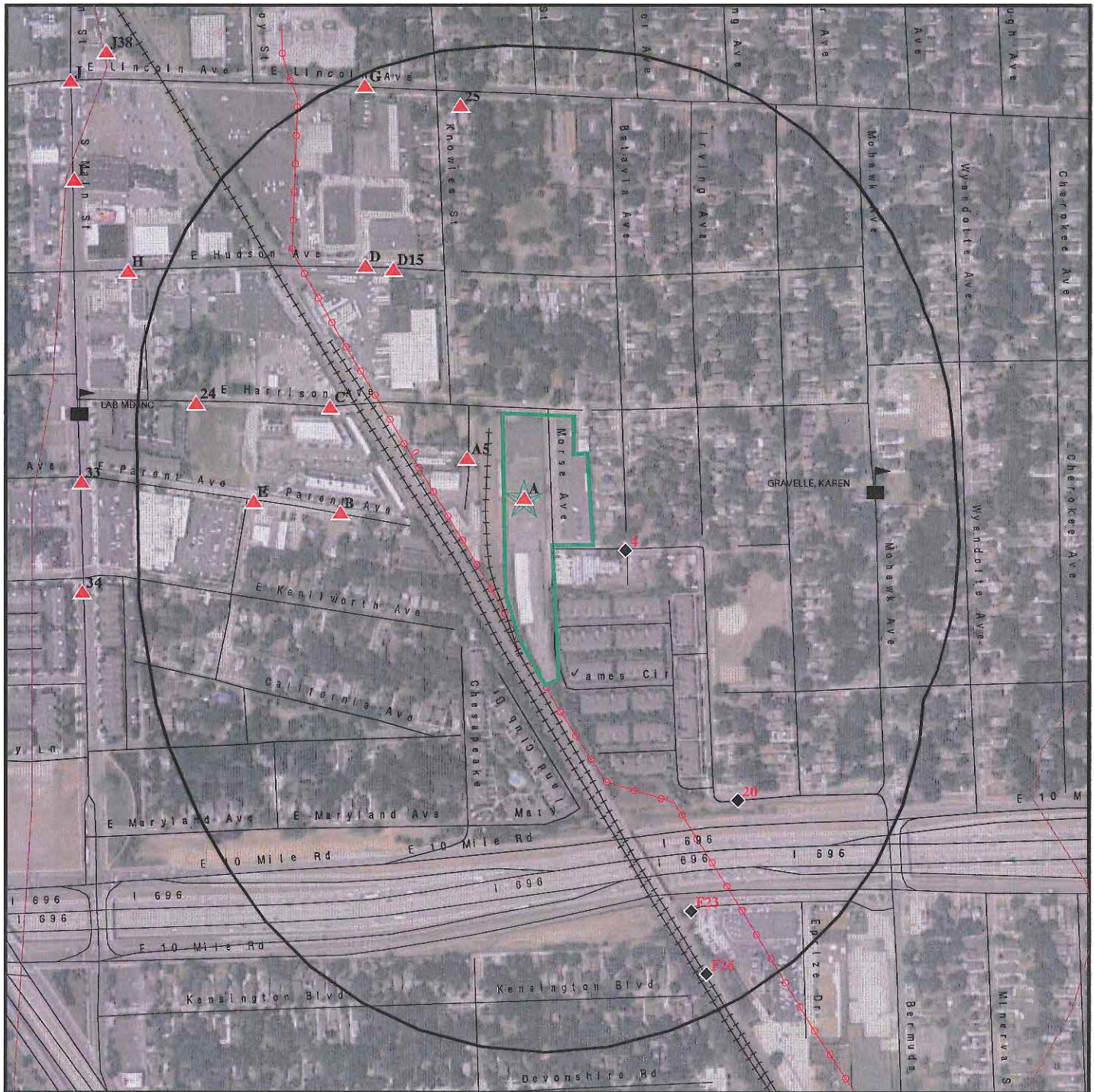
 State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 1210, 1220, 1232 Morse Ave and 620 E Harrison Ave
ADDRESS: 1210, 1220, 1232 Morse Ave and 620 E Harrison Ave
Royal Oak MI 48067
LAT/LONG: 42.4794 / 83.138

CLIENT: PM Environmental, Inc.
CONTACT: Nelson
INQUIRY #: 03825735.2r
DATE: January 08, 2014 1:23 pm

DETAIL MAP - 03825735.2r



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 1210, 1220, 1232 Morse Ave and 620 E Harrison Ave
 ADDRESS: 1210, 1220, 1232 Morse Ave and 620 E Harrison Ave
 Royal Oak MI 48067
 LAT/LONG: 42.4794 / 83.138

CLIENT: PM Environmental, Inc.
 CONTACT: Nelson
 INQUIRY #: 03825735.2r
 DATE: January 08, 2014 1:25 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	1	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
MI SHWS	1.000		0	2	0	2	NR	4
State and tribal landfill and/or solid waste disposal site lists								
MI SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
MI LUST	0.500		1	3	7	NR	NR	11
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
MI UST	0.250		1	5	NR	NR	NR	6

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MI AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
MI AUL	0.500		0	0	1	NR	NR	1
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
MI BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
MI HIST LF	0.500		0	0	0	NR	NR	0
MI SWRCY	0.500		1	0	0	NR	NR	1
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
MI DEL SHWS	1.000		0	0	0	1	NR	1
MI CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
MI LIENS	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
MI SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	4	3	NR	NR	NR	8
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
MI UIC	TP		NR	NR	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
MI DRYCLEANERS	0.250		0	0	NR	NR	NR	0
MI NPDES	TP		NR	NR	NR	NR	NR	0
MI AIRS	TP		NR	NR	NR	NR	NR	0
MI BEA	0.500		6	4	10	NR	NR	20
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
MI Financial Assurance	TP		NR	NR	NR	NR	NR	0
MI COAL ASH	0.500		0	0	0	NR	NR	0
MI WDS	TP	2	NR	NR	NR	NR	NR	2
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000	0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250	0	2	NR	NR	NR	2
EDR US Hist Cleaners	0.250	0	1	NR	NR	NR	1

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

MI RGA LUST	0.500	1	3	8	NR	NR	12
MI RGA HWS	1.000	0	1	0	2	NR	3

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1
Target
Property

BELL PLASTICS
1220 MORSE AVE
ROYAL OAK, MI 48067

MI WDS **S111936023**
N/A

Site 1 of 4 in cluster A

Actual:
648 ft.

WDS:
Site Id: MID151364205
WMD Id: 398770
Site Specific Name: BELL PLASTICS
Mailing Address: 1220 MORSE AVE
Mailing City/State/Zip: 48067
Mailing County: OAKLAND

A2
Target
Property

PRN SERVICES
1210 MORSE AVE
ROYAL OAK, MI 48067

MI WDS **S111967031**
N/A

Site 2 of 4 in cluster A

Actual:
648 ft.

WDS:
Site Id: MIG000019777
WMD Id: 453485
Site Specific Name: PRN SERVICES
Mailing Address: 1210 MORSE AVE
Mailing City/State/Zip: 48067
Mailing County: OAKLAND

A3
Target
Property

BELL PLASTICS
1220 MORSE AVE
ROYAL OAK, MI 48067

RCRA NonGen / NLR **1000274776**
FINDS **MID151364205**

Site 3 of 4 in cluster A

Actual:
648 ft.

RCRA NonGen / NLR:
Date form received by agency: 09/17/1998
Facility name: BELL PLASTICS
Facility address: 1220 MORSE AVE
ROYAL OAK, MI 48067
EPA ID: MID151364205
Contact: BRAD SAUNDER
Contact address: 1220 MORSE AVE
ROYAL OAK, MI 48067
Contact country: US
Contact telephone: (313) 547-8620
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: BELL PLASTICS
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELL PLASTICS (Continued)

1000274776

Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: NAME NOT REPORTED
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 10/31/1988
Facility name: BELL PLASTICS
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110003614296

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BELL PLASTICS (Continued)

1000274776

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

4
ESE
< 1/8
0.022 mi.
118 ft.

I E & E
1300 BATAVIA AVE
ROYAL OAK, MI 48067

MI BEA S105254618
MI WDS N/A

Relative:
Lower

BEA:
Secondary Address: Not reported
BEA Number: 1551
Actual: District: Southeast MI
645 ft. Date Received: 11/21/2001
Submitter Name: G 4 HOLDINGS
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: lundk
Division Assigned: Environmental Response Division

WDS:

Site Id: MIG000004366
WMD Id: 458439
Site Specific Name: I E & E
Mailing Address: 1300 BATAVIA AVE
Mailing City/State/Zip: 48067
Mailing County: OAKLAND

A5
NW
< 1/8
0.025 mi.
132 ft.

CARNWATH & SONS CONTRACTING PROPERTY
1200 KNOWLES STREET
ROYAL OAK, MI 48067

MI BEA S110675920
MI WDS N/A

Site 4 of 4 in cluster A

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 5045
Actual: District: Southeast MI
649 ft. Date Received: 01/11/2012
Submitter Name: V & M Corp. dba Royal Oak Recycling
Petition Determination: No Request
Petition Disclosure: 0
Category: Not reported
Determination 20107A: No Request
Reviewer: berakr
Division Assigned: RD

WDS:

Site Id: Not reported
WMD Id: 488800
Site Specific Name: EQUIPMENT ASSETS INC
Mailing Address: 1200 KNOWLES ST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARNWATH & SONS CONTRACTING PROPERTY (Continued)

S110675920

Mailing City/State/Zip: 48067
Mailing County: OAKLAND

B6
West
< 1/8
0.102 mi.
541 ft.

STATION 3 LOFTS
333 EAST PARENT AVENUE
ROYAL OAK, MI 48067

MI BEA S111832720
N/A

Site 1 of 4 in cluster B

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 5167
District: Southeast MI
Date Received: 05/08/2012
Submitter Name: Station 3 Lofts, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Not reported
Determination 20107A: No Request
Reviewer: berakr
Division Assigned: RD

Actual:
650 ft.

B7
West
< 1/8
0.102 mi.
541 ft.

STATION 3 LOFTS
333 E. PARENT AVENUE
ROYAL OAK, MI 48067

MI BEA S110748381
N/A

Site 2 of 4 in cluster B

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 4658
District: Southeast MI
Date Received: 12/27/2010
Submitter Name: Alidade Metro Lofts, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Not reported
Determination 20107A: No Request
Reviewer: berakr
Division Assigned: RRD

Actual:
650 ft.

B8
West
< 1/8
0.109 mi.
576 ft.

MOTION INDUSTRIES INC
420 E PARENT AVE
ROYAL OAK, MI

RCRA NonGen / NLR 1000259426
FINDS MID981784028

Site 3 of 4 in cluster B

Relative:
Higher

RCRA NonGen / NLR:
Date form received by agency: 12/31/2001
Facility name: MOTION INDUSTRIES INC
Facility address: 420 E PARENT AVE
ROYAL OAK, MI 48067
EPA ID: MID981784028
Contact: MICHAEL MCCARTHY
Contact address: 420 E PARENT AVE

Actual:
650 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOTION INDUSTRIES INC (Continued)

1000259426

ROYAL OAK, MI 48067
Contact country: US
Contact telephone: (313) 548-0713
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2002
Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2002
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 09/24/1986
Facility name: MOTION INDUSTRIES INC
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MOTION INDUSTRIES INC (Continued)

1000259426

CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110003622535

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

B9
West
< 1/8
0.112 mi.
591 ft.

W D ZOBEL COMPANY
315 E PARENT AVE
ROYAL OAK, MI 48067

RCRA NonGen / NLR **1000203801**
FINDS **MID082215864**

Relative:
Higher

RCRA NonGen / NLR:

Date form received by agency: 10/31/2005

Facility name: W D ZOBEL COMPANY

Facility address: 315 E PARENT AVE
ROYAL OAK, MI 48067

EPA ID: MID082215864

Contact: WILLIAM ZOBEL

Contact address: 315 E PARENT AVE
ROYAL OAK, MI 48067

Contact country: US

Contact telephone: (313) 399-8080

Contact email: Not reported

EPA Region: 05

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
650 ft.

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Operator

Owner/Op start date: 11/01/2005

Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number

EPA ID Number

W D ZOBEL COMPANY (Continued)

1000203801

Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 11/01/2005
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 07/12/2005
Facility name: W D ZOBEL COMPANY
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/31/1989
Facility name: W D ZOBEL COMPANY
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110003605457

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

C10 METROPOLITAN LOFTS LLC
WNW 322 E HARRISON AVE
< 1/8 ROYAL OAK, MI 48067
0.113 mi.
596 ft.

MI UST U003975303
N/A

Site 1 of 5 in cluster C

Relative:
Higher

UST:

Actual:
652 ft.

Facility ID: 00041607
Facility Type: CLOSED
Owner Name: METROPOLITAN LOFTS LLC
Owner Address: 322 E HARRISON AVE
Owner City,St,Zip: ROYAL OAK, MI 48067
Owner Country: USA
Owner Contact: Not reported
Owner Phone: Non Responsive
Contact: David Wilson
Contact Phone: (248) 854-8651
Date of Collection: Not reported
Accuracy: 15
Accuracy Value Unit: METERS
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Map
Latitude: 42.47990
Longitude: -83.14086

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 12000
Product: Heating Oil
Install Date: Not reported
Remove Date: 08/19/2004
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

C11 METROPOLITAN LOFTS, L.L.C.
WNW 322 EAST HARRISON
< 1/8 ROYAL OAK, MI 48067
0.113 mi.
596 ft.

MI BEA S106425714
N/A

Site 2 of 5 in cluster C

Relative:
Higher

BEA:

Actual:
652 ft.

Secondary Address: Not reported
BEA Number: 2416
District: Southeast MI
Date Received: 06/04/2004
Submitter Name: METROPOLITAN LOFTS, L.L.C.
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: labrecqd
Division Assigned: Environmental Response Division

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

C12
WNW
< 1/8
0.113 mi.
596 ft.

V & M CORP
322 E HARRISON AVE
ROYAL OAK, MI 48067

Site 3 of 5 in cluster C

RCRA NonGen / NLR **1007100591**
MIK854219342

Relative:
Higher

RCRA NonGen / NLR:

Actual:
652 ft.

Date form received by agency: 09/12/2003
Facility name: V & M CORP
Facility address: 322 E HARRISON AVE
ROYAL OAK, MI 48067
EPA ID: MIK854219342
Mailing address: 414 E HUDSON AVE
ROYAL OAK, MI 48067
Contact: HABIH MAMOU
Contact address: 322 E HARRISON AVE
ROYAL OAK, MI 48067
Contact country: US
Contact telephone: (248) 541-8850
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: V & M CORP
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 09/12/2003
Owner/Op end date: Not reported

Owner/operator name: V & M CORP
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/12/2003
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

V & M CORP (Continued)

1007100591

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/1980
Facility name: V & M CORP
Classification: Not a generator, verified

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

**C13
WNW
< 1/8
0.118 mi.
623 ft.**

**A & M PROPERTIES
303 HARRISON
ROYAL OAK, MI**

**MI LUST S104911422
MI BEA N/A
MI RGA LUST**

Site 4 of 5 in cluster C

**Relative:
Higher**

LUST:

**Actual:
652 ft.**

Facility ID: 50002179
Source: STATE OF MICHIGAN
Owner Name: Nrt Owner
Owner Address: Unknown
Owner City,St,Zip: Unknown, MI 99999
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: SE Michigan District Office
Site Name: Parking Lot
Latitude: 42.48052
Longitude: -83.14644
Date of Collection: 10/05/2004
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0054-98
Release Date: 01/20/1998
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

BEA:

Secondary Address: Not reported
BEA Number: 460
District: Southeast MI

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A & M PROPERTIES (Continued)

S104911422

Date Received: 10/23/1997
Submitter Name: A & M PROPERTIES
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: temppm
Division Assigned: Storage Tank Division

RGA LUST:

2012	PARKING LOT	303 HARRISON
2011	PARKING LOT	303 HARRISON
2010	PARKING LOT	303 HARRISON
2009	PARKING LOT	303 HARRISON
2008	PARKING LOT	303 HARRISON
2007	PARKING LOT	303 HARRISON
2006	PARKING LOT	303 HARRISON
2005	PARKING LOT	303 HARRISON
2004	PARKING LOT	303 HARRISON
2003	PARKING LOT	303 HARRISON
2001	PARKING LOT	303 HARRISON
2000	PARKING LOT	303 HARRISON
1999	PARKING LOT	303 HARRISON
1998	PARKING LOT	303 HARRISON

C14
WNW
< 1/8
0.118 mi.
623 ft.

CITY OF ROYAL OAK POLICE DEPARTMENT
303 E HARRISON AVE
ROYAL OAK, MI 48067
Site 5 of 5 in cluster C

RCRA NonGen / NLR **1007371028**
MIK736749391

Relative:
Higher

RCRA NonGen / NLR:

Actual:
652 ft.

Date form received by agency: 04/16/2004
Facility name: CITY OF ROYAL OAK POLICE DEPARTMENT
Facility address: 303 E HARRISON AVE
ROYAL OAK, MI 48067
EPA ID: MIK736749391
Mailing address: 221 E 3RD ST
ROYAL OAK, MI 48067
Contact: CHIEF WIGHMAN
Contact address: 303 E HARRISON AVE
ROYAL OAK, MI 48067
Contact country: US
Contact telephone: (248) 246-3525
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: CITY OF ROYAL OAK POLICE DEPARTMENT
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: 04/16/2004

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF ROYAL OAK POLICE DEPARTMENT (Continued)

1007371028

Owner/Op end date: Not reported
Owner/operator name: CITY OF ROYAL OAK POLICE DEPARTMENT
Owner/operator address: Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: 04/16/2004
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

D15
NNW
< 1/8
0.123 mi.
652 ft.
Site 1 of 5 in cluster D

ROYAL OAK WASTE & METAL
414 E HUDSON AVE
ROYAL OAK, MI 48067

MI SWRCY S110533558
MI WDS N/A

Relative:
Higher

Actual:
650 ft.

SWRCY:
Contact Name: DAWN GENTRY, RECYCLING CONSULTANT
Contact Phone1: (248) 541-4020 ext.
Contact Phone2: Not reported
Fax Number: 248/ 541-3065
Email: dawn@royaloakrecycling.com
Website: www.royaloakrecycling.com
Company Type: BROKER, PROCESSOR
Sections: DRUMS, METALS, MISC., PALLETS, PAPER, PLASTICS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROYAL OAK WASTE & METAL (Continued)

S110533558

WDS:

Site Id: MIG000047193
WMD Id: 439856
Site Specific Name: ROYAL OAK WASTE & METAL
Mailing Address: 414 E HUDSON AVE
Mailing City/State/Zip: 48067
Mailing County: OAKLAND

D16
NW
1/8-1/4
0.135 mi.
714 ft.

JA - REED, LLC
415 EAST HUDSON
ROYAL OAK, MI

MI BEA S110624660
N/A

Site 2 of 5 in cluster D

Relative:
Higher

BEA:

Secondary Address: Not reported
BEA Number: 786
District: Southeast MI
Date Received: 12/11/1998
Submitter Name: JA - REED, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: temppm
Division Assigned: Storage Tank Division

Actual:
650 ft.

Secondary Address: Not reported
BEA Number: 1647
District: Southeast MI
Date Received: 03/18/2002
Submitter Name: ROYAL OAK MINI STORAGE, LLC
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: Affirmed
Reviewer: berakr
Division Assigned: Environmental Response Division

D17
NW
1/8-1/4
0.135 mi.
714 ft.

STEVE FAY
415 E HUDSON ST
ROYAL OAK, MI 49686

MI SHWS U003322867
MI LUST N/A
MI UST
MI WDS
MI RGA LUST
MI RGA HWS

Site 3 of 5 in cluster D

Relative:
Higher

SHWS:

Facility ID: 63005144
Facility Status: See Leaking Underground Storage Tank Site Database
Source: Misc Services
SAM Score: 33
SAM Score Date: 12/12/2007
Township: Not reported
Range: Not reported
Section: Not reported
Quarter: Not reported

Actual:
650 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STEVE FAY (Continued)

U003322867

Quarter/Quarter: Not reported
Pollutants: Not reported

LUST:

Facility ID: 00013762
Source: STATE OF MICHIGAN
Owner Name: Steve Fay
Owner Address: Non Responsive
Owner City,St,Zip:
Owner Contact:
Owner Phone:
Country: USA
District: SE Michigan District Office
Site Name: Steve Fay
Latitude: 42.48172
Longitude: -83.14002
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0183-98
Release Date: 03/11/1998
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00013762
Facility Type: CLOSED
Owner Name: STEVE FAY
Owner Address: Non Responsive
Owner City,St,Zip:
Owner Country:
Owner Contact:
Owner Phone:
Contact: STEVE FAY
Contact Phone: (616) 938-1406
Date of Collection: 01/11/2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
Latitude: 42.48172
Longitude: -83.14002

Tank ID: 8
Tank Status: Removed from Ground
Capacity: 8000
Product: Diesel
Install Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STEVE FAY (Continued)

U003322867

Remove Date: 07/01/1987
Tank Release Detection: Manual Tank Gauging, Tank Tightness Testing
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Construction Material: Asphalt Coated or Bare Steel, Lined Interior
Impressed Device: No

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 10000
Product: Diesel
Install Date: 05/07/1961
Remove Date: 09/01/1987
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 8000
Product: Diesel
Install Date: 01/01/1975
Remove Date: 03/11/1998
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 3
Tank Status: Removed from Ground
Capacity: 8000
Product: Diesel
Install Date: 05/07/1961
Remove Date: 07/01/1987
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 4
Tank Status: Removed from Ground
Capacity: 10000
Product: Gasoline
Install Date: 05/07/1961
Remove Date: 07/01/1987

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STEVE FAY (Continued)

U003322867

Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 5
Tank Status: Removed from Ground
Capacity: 8000
Product: Gasoline
Install Date: 05/07/1961
Remove Date: 03/11/1998
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 7
Tank Status: Removed from Ground
Capacity: 1500
Product: Used Oil
Install Date: 05/07/1967
Remove Date: 03/11/1998
Tank Release Detection: Manual Tank Gauging
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

WDS:

Site Id: MIG000016630
WMD Id: 421129
Site Specific Name: J A/REED LLC
Mailing Address: 415 E HUDSON AVE
Mailing City/State/Zip: 48067
Mailing County: OAKLAND

RGA LUST:

2012	STEVE FAY	415 E HUDSON ST
2011	STEVE FAY	415 E HUDSON ST
2010	STEVE FAY	415 E HUDSON ST
2009	STEVE FAY	415 E HUDSON ST
2008	STEVE FAY	415 E HUDSON ST
2007	STEVE FAY	415 E HUDSON ST
2006	STEVE FAY	415 E HUDSON ST
2005	STEVE FAY	415 E HUDSON ST
2004	STEVE FAY	415 E HUDSON ST
2003	STEVE FAY	415 E HUDSON ST
2001	STEVE FAY	415 E HUDSON ST
2000	STEVE FAY	415 E HUDSON ST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STEVE FAY (Continued)

U003322867

1999 STEVE FAY 415 E HUDSON ST
1998 STEVE FAY 415 E HUDSON ST

RGA HWS:

2012 415 E. HUDSON AVE. 415 E. HUDSON AVE.
2011 415 E. HUDSON AVE. 415 E. HUDSON AVE.
2010 415 E. HUDSON AVE. 415 E. HUDSON AVE.

D18
NW
1/8-1/4
0.135 mi.
714 ft.

415 E HUDSON AVE
ROYAL OAK, MI 48067
Site 4 of 5 in cluster D

EDR US Hist Auto Stat 1015482655
N/A

Relative:
Higher

EDR Historical Auto Stations:

Name: ANDYS AUTOMOTIVE
Year: 2001
Address: 415 E HUDSON AVE

Actual:
650 ft.

D19
NW
1/8-1/4
0.138 mi.
727 ft.

DESIGNED LANDSCAPE INC
409 E HUDSON AVE
ROYAL OAK, MI 48067
Site 5 of 5 in cluster D

MI LUST U003323244
MI UST N/A
MI RGA LUST

Relative:
Higher

LUST:

Facility ID: 00015133
Source: STATE OF MICHIGAN
Owner Name: Designed Landscape Inc
Owner Address: 409 E Hudson Ave
Owner City,St,Zip: Royal Oak, MI 48067-3725
Owner Contact: Not reported
Owner Phone: Non Responsive
Country: USA
District: SE Michigan District Office
Site Name: Designed Landscape Inc
Latitude: 42.48172
Longitude: -83.14008
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Actual:
650 ft.

Leak Number: C-0049-00
Release Date: 01/12/2000
Substance Released: Unknown
Release Status: Closed
Release Closed Date: 12/04/2008

UST:

Facility ID: 00015133
Facility Type: CLOSED
Owner Name: DESIGNED LANDSCAPE INC
Owner Address: 409 E HUDSON AVE
Owner City,St,Zip: ROYAL OAK, MI 48067-3725

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DESIGNED LANDSCAPE INC (Continued)

U003323244

Owner Country: USA
Owner Contact: Not reported
Owner Phone: Non Responsive
Contact: MR HARVEY P OLSEN
Contact Phone: (313) 399-0411
Date of Collection: 01/11/2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
Latitude: 42.48172
Longitude: -83.14008

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 2000
Product: Gasoline
Install Date: 04/03/1982
Remove Date: 03/05/1999
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

RGA LUST:

2012	DESIGNED LANDSCAPE INC	409 E HUDSON AVE
2011	DESIGNED LANDSCAPE INC	409 E HUDSON AVE
2010	DESIGNED LANDSCAPE INC	409 E HUDSON AVE
2009	DESIGNED LANDSCAPE INC	409 E HUDSON AVE
2008	DESIGNED LANDSCAPE INC	409 E HUDSON AVE
2007	DESIGNED LANDSCAPE INC	409 E HUDSON AVE
2006	DESIGNED LANDSCAPE INC	409 E HUDSON AVE
2005	DESIGNED LANDSCAPE INC	409 E HUDSON AVE
2004	DESIGNED LANDSCAPE INC	409 E HUDSON AVE
2003	DESIGNED LANDSCAPE INC	409 E HUDSON AVE
2001	DESIGNED LANDSCAPE INC	409 E HUDSON

20
SE
1/8-1/4
0.148 mi.
779 ft.

INTERNATIONAL INDUSTRIAL CONTRAC
1500 IRVING ST
ROYAL OAK, MI 48310

MI UST U003833272
N/A

Relative:
Lower

Actual:
645 ft.

UST:

Facility ID: 00013839
Facility Type: ACTIVE
Owner Name: INTERNATIONAL INDUSTRIAL CONTRACTING
Owner Address: Non Responsive
Owner City,St,Zip:
Owner Country:
Owner Contact:
Owner Phone:
Contact: JOE R. BASSETT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INTERNATIONAL INDUSTRIAL CONTRAC (Continued)

U003833272

Contact Phone: (313) 264-7070
Date of Collection: 01/11/2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
Latitude: 42.47721
Longitude: -83.13573

Tank ID: 1
Tank Status: Temporarily out of Use
Capacity: 3000
Product: Gasoline
Install Date: 03/07/1972
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Construction Material: Unknown
Impressed Device: No

Tank ID: 2
Tank Status: Temporarily out of Use
Capacity: 1000
Product: Diesel
Install Date: 03/07/1972
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Construction Material: Unknown
Impressed Device: No

Tank ID: 3
Tank Status: Temporarily out of Use
Capacity: 1000
Product: Gasoline
Install Date: 03/07/1972
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Construction Material: Unknown
Impressed Device: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

E21 ROYAL METALS CO
West 310 E PARENT AVE
1/8-1/4 ROYAL OAK, MI 48067
0.167 mi.
881 ft. Site 1 of 2 in cluster E

RCRA NonGen / NLR 1000828402
FINDS MID985654730

Relative:
Higher

Actual:
650 ft.

RCRA NonGen / NLR:

Date form received by agency: 09/17/1998
Facility name: ROYAL METALS CO
Facility address: 310 E PARENT AVE
ROYAL OAK, MI 48067
EPA ID: MID985654730
Contact: GREG BURR
Contact address: 310 E PARENT AVE
ROYAL OAK, MI 48067
Contact country: US
Contact telephone: (313) 543-1657
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/26/2000
Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/26/2000
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROYAL METALS CO (Continued)

1000828402

Used oil transporter: No

Historical Generators:

Date form received by agency: 12/11/1992
Facility name: ROYAL METALS CO
Classification: Not a generator, verified

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110003677487

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

E22
West
1/8-1/4
0.171 mi.
903 ft.

FIRST OF AMERICA BANK
302 EAST PARENT AVENUE
ROYAL OAK, MI

MI BEA S104910298
N/A

Site 2 of 2 in cluster E

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 167
District: Southeast MI
Date Received: 08/27/1996
Submitter Name: LON A. KEAST
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: Pending
Reviewer: taylorre
Division Assigned: Environmental Response Division

Actual:
650 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

F23 **WALMET DIV**
SSE **404 E 10 MILE RD**
1/8-1/4 **PLEASANT RIDGE, MI 48069**
0.182 mi.
960 ft.

RCRA NonGen / NLR **1000128639**
US AIRS **MID054693213**

Relative:
Lower

Actual:
646 ft.

RCRA NonGen / NLR:
Date form received by agency: 12/21/2000
Facility name: WALMET DIV
Facility address: 404 E 10 MILE RD
PLEASANT RIDGE, MI 48069
EPA ID: MID054693213
Mailing address: 31700 RESEARCH PARK DR
MADISON HEIGHTS, MI 48071
Contact: N RANDOLPH GIBBS
Contact address: 404 E 10 MILE RD
PLEASANT RIDGE, MI 48069
Contact country: US
Contact telephone: (810) 589-6056
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1995
Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1995
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALMET DIV (Continued)

1000128639

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 02/17/1995
Facility name: WALMET DIV
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 08/11/1980
Facility name: WALMET DIV
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

AIRS (AFS):

Airs Minor Details:

EPA plant ID: 110002463879
Plant name: GTE VALENITE CORPORATION
Plant address: 404 EAST TEN MILE RD.
PLEASANT RIDGE, MI 48069
County: OAKLAND
Region code: 05
Dunn & Bradst #: Not reported
Air quality cntrl region: 123
Sic code: 3541
Sic code desc: MACHINE TOOLS, METAL CUTTING TYPES
North Am. industrial classf: 333512
NAIC code description: Machine Tool (Metal Cutting Types) Manufacturing
Default compliance status: IN COMPLIANCE - INSPECTION
Default classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility: ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV: Not reported

Historical Compliance Minor Sources:

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1004
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1103
Air prog code hist file: SIP SOURCE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WALMET DIV (Continued)

1000128639

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1204
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1302
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1101
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1102
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1301
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1303
Air prog code hist file: SIP SOURCE

Compliance & Violation Data by Minor Sources:

Air program code: SIP SOURCE
Plant air program pollutant: OTHER
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE - INSPECTION
Def. attainment/non attainment: Not reported
Repeat violator date: Not reported
Turnover compliance: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

24
WNW
1/8-1/4
0.209 mi.
1104 ft.

WAYNE OAKLAND OIL CO
230 E HARRISON AVE
ROYAL OAK, MI 48067

MI SHWS U000262107
MI LUST N/A
MI UST
MI AST
MI AIRS
MI BEA
MI WDS
MI RGA LUST

Relative:
Higher

Actual:
654 ft.

SHWS:

Facility ID: 63000838
Facility Status: See Leaking Underground Storage Tank Site Database
Source: Petroleum & Coal Products
SAM Score: 32
SAM Score Date: 11/18/1998
Township: 01N
Range: 11E
Section: 21
Quarter: NE
Quarter/Quarter: NE
Pollutants: Benzene; Ethylbenzene; Toluene; Xylenes

LUST:

Facility ID: 00004874
Source: STATE OF MICHIGAN
Owner Name: Wayne Oakland Oil
Owner Address: Non Responsive
Owner City,St,Zip:
Owner Contact:
Owner Phone:
Country: USA
District: SE Michigan District Office
Site Name: Wayne Oakland Oil
Latitude: 42.48007
Longitude: -83.14133
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-1636-90
Release Date: 08/25/1990
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1673-90
Release Date: 08/24/1990
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00004874
Facility Type: CLOSED
Owner Name: WAYNE OAKLAND OIL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WAYNE OAKLAND OIL CO (Continued)

U000262107

Owner Address: **Non Responsive**
Owner City,St,Zip: **Non Responsive**
Owner Country: **Non Responsive**
Owner Contact: **Non Responsive**
Owner Phone: **Non Responsive**
Contact: Not reported
Contact Phone: () -
Date of Collection: 01/11/2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
Latitude: 42.48007
Longitude: -83.14133

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 1000
Product: Gasoline
Install Date: 04/27/1975
Remove Date: 06/30/1987
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 4000
Product: EMERG. SPILL OR WATE
Install Date: 04/26/1974
Remove Date: 06/12/1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 3
Tank Status: Removed from Ground
Capacity: 3000
Product: EMPTY-OIL SPILL PROT
Install Date: 10/11/1990
Remove Date: 05/29/1997
Tank Release Detection: Manual Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Line Tightness Testing
Piping Material: Galvanized Steel
Piping Type: Not reported
Construction Material: Cathodically Protected Steel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

WAYNE OAKLAND OIL CO (Continued)

U000262107

Impressed Device: No

AST:

Facility ID: 91063014
Type: AST
Facility Phone: (248) 548-4646
Owner Name: WAYNE OAKLAND OIL
Owner Address: Non Responsive
Owner City,St,Zip:
Owner County:
Owner Contact:
Owner Telephone:
District: SE Michigan District Office
Contact: LAMAR CHEEK
Latitude: Not reported
Longitude: -83.141332
Date of Collection: 01/11/2001
Accuracy: 100 FEET
Horizontal Datum: NAD83

AIRS:

El Year: 2013
State Registration Number: N5414
Naics Code: Not reported
Contact Name: WILLIAM JOHNSTON
Contact Phone: 810548-4646
Contact Address: WAYNE OAKLAND OIL
Contact Address 2: 230 E. HARRISON ST.
Contact City,St,Zip: ROYAL OAK, MI 48068
Permit Number: 486-94
Date Received: 10/03/1994
State Registration Number: N5414
Country: Not reported
Application Reason: SOIL VAPOR EXTRACTION SYSTEM
Record Type: Not reported
State County FIPS: Not reported
Facility Category: Not reported
SIC Primary: Not reported
Tribal Code: Not reported
Supplemental Location Text: Not reported
Dun & Brad Street Number: Not reported
Business Name: Not reported
Principal Product: Not reported
Principal Product Description: Not reported
UTM Zone (Geo Coordinates Universal Transverse Mercator System): Not reported
UTM Horizontal Coord: Not reported
UTM Vertical Coord: Not reported
Mailing Name: Not reported
Mailing Contact Person: Not reported
Mailing Street: Not reported
Mailing City: Not reported
Mailing State: Not reported
Mailing Zip: Not reported
Mailing Zip 4 Extension: Not reported
Compliance Person: Not reported
Compliance Area Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WAYNE OAKLAND OIL CO (Continued)

U000262107

Compliance Phone Number: Not reported
Emission Inventory Contact Person: Not reported
EI Contact Area Code: Not reported
EI Contact Phone Number: Not reported
Permit Contact Person: Not reported
Permit Contact Person Area Code: Not reported
Permit Contact Person Phone Number: Not reported
Federal Employer Id Number: Not reported
Of Employees: Not reported
Reporting Year: Not reported
Date Record Was Created: Not reported

BEA:

Secondary Address: Not reported
BEA Number: 440
District: Southeast MI
Date Received: 09/22/1997
Submitter Name: BETTER DREAMS FOUNDATION
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: temppm
Division Assigned: Storage Tank Division

Secondary Address: Not reported
BEA Number: 702
District: Southeast MI
Date Received: 08/25/1998
Submitter Name: 230 E. HARRISON, LLC
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: Pending
Reviewer: temppm
Division Assigned: Environmental Response Division

WDS:

Site Id: MIG000025374
WMD Id: 450351
Site Specific Name: WAYNE OAKLAND OIL CO
Mailing Address: 230 E HARRISON AVE
Mailing City/State/Zip: 48067
Mailing County: OAKLAND

RGALUST:

2012	WAYNE OAKLAND OIL CO	230 E HARRISON AVE
2011	WAYNE OAKLAND OIL CO	230 E HARRISON AVE
2010	WAYNE OAKLAND OIL CO	230 E HARRISON AVE
2009	WAYNE OAKLAND OIL CO	230 E HARRISON AVE
2008	WAYNE OAKLAND OIL CO	230 E HARRISON AVE
2007	WAYNE OAKLAND OIL CO	230 E HARRISON AVE
2006	WAYNE OAKLAND OIL CO	230 E HARRISON AVE
2005	WAYNE OAKLAND OIL CO	230 E HARRISON AVE
2004	WAYNE OAKLAND OIL CO	230 E HARRISON AVE
2003	WAYNE OAKLAND OIL CO	230 E HARRISON AVE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number

EPA ID Number

WAYNE OAKLAND OIL CO (Continued)

U000262107

2001	WAYNE OAKLAND OIL CO	230 E HARRISON
2000	WAYNE OAKLAND OIL CO	230 E HARRISON
1999	WAYNE OAKLAND OIL CO	230 E HARRISON
1998	WAYNE OAKLAND OIL CO	230 E HARRISON
1997	WAYNE OAKLAND OIL CO	230 E HARRISON

25
North
1/8-1/4
0.212 mi.
1117 ft.

CITY OF ROYAL OAK
LINCOLN AVE AND KNOWLES ST
ROYAL OAK, MI

RCRA NonGen / NLR
FINDS

1000828486
MID985655570

Relative:
Higher

RCRA NonGen / NLR:

Actual:
649 ft.

Date form received by agency: 09/17/1998
Facility name: CITY OF ROYAL OAK
Facility address: LINCOLN AVE AND KNOWLES ST
ROYAL OAK, MI 48067
EPA ID: MID985655570
Mailing address: 211 S WILLIAMS ST
ROYAL OAK, MI 48067
Contact: RODGER JACOBS
Contact address: LINCOLN AVE AND KNOWLES ST
ROYAL OAK, MI 48067
Contact country: US
Contact telephone: (313) 544-6636
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: ROYAL OAK CITY OF
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: ROYAL OAK CITY OF
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF ROYAL OAK (Continued)

1000828486

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/04/1993
Facility name: CITY OF ROYAL OAK
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110007582883

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

F26
SSE
1/8-1/4
0.225 mi.
1186 ft.
GTE WALMET
404 E TEN MILE ROAD
PLEASANT RIDGE, MI 48069
Site 2 of 2 in cluster F

MI UST U003320939
N/A

Relative:
Lower

Actual:
646 ft.

UST:
Facility ID: 00006750
Facility Type: CLOSED
Owner Name: GTE WALMET
Owner Address: 404 E TEN MILE RD
Owner City, St, Zip: PLEASANT RIDGE, MI 48069
Owner Country: USA
Owner Contact: Not reported
Owner Phone: Non Responsive
Contact: RICHARD CATTANACH
Contact Phone: (313) 589-6056

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GTE WALMET (Continued)

U003320939

Date of Collection: 01/11/2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
Latitude: 42.47505
Longitude: -83.13639

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 1000
Product: Hazardous Substance
Install Date: 02/26/1976
Remove Date: 10/05/1987
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Not reported
Construction Material: Asphalt Coated or Bare Steel,Lined Interior
Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 1000
Product: Hazardous Substance
Install Date: 02/26/1971
Remove Date: 10/05/1987
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Not reported
Construction Material: Asphalt Coated or Bare Steel,Lined Interior
Impressed Device: No

Tank ID: 3
Tank Status: Removed from Ground
Capacity: 10000
Product: Used Oil
Install Date: 02/26/1971
Remove Date: 10/05/1987
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

G27
NNW
1/8-1/4
0.239 mi.
1264 ft.

PATRICK REAL ESTATE PROPERTY
426 EAST LINCOLN AVENUE
ROYAL OAK, MI 48067

Site 1 of 3 in cluster G

MI BEA **S113717224**
N/A

Relative: **BEA:**
Higher Secondary Address: Not reported
BEA Number: 5501
Actual: District: Southeast MI
650 ft. Date Received: 02/27/2013
Submitter Name: Timoth Patrick Real Estate, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Not reported
Determination 20107A: No Request
Reviewer: berakr
Division Assigned: RRD

G28
NNW
1/8-1/4
0.239 mi.
1264 ft.

426 E LINCOLN AVE
ROYAL OAK, MI 48067

Site 2 of 3 in cluster G

EDR US Hist Auto Stat **1015490054**
N/A

Relative: **EDR Historical Auto Stations:**
Higher Name: RAY AND SONS AUTO REPAIR
Year: 1999
Actual: Address: 426 E LINCOLN AVE
650 ft.

Name: RAY AND SONS AUTO REPAIR
Year: 2000
Address: 426 E LINCOLN AVE

Name: RAY & SONS AUTO REPAIR
Year: 2001
Address: 426 E LINCOLN AVE

Name: RAY & SONS AUTO REPAIR
Year: 2002
Address: 426 E LINCOLN AVE

Name: RAY & SONS AUTO REPAIR INC
Year: 2004
Address: 426 E LINCOLN AVE

Name: RAY & SONS AUTO REPAIR
Year: 2005
Address: 426 E LINCOLN AVE

Name: RAY & SONS AUTO REPAIR
Year: 2006
Address: 426 E LINCOLN AVE

Name: RAY & SONS AUTO REPAIR
Year: 2007
Address: 426 E LINCOLN AVE

Name: RAY & SONS AUTO REPAIR
Year: 2008

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

1015490054

Address: 426 E LINCOLN AVE

Name: RAY & SONS AUTO REPAIR
Year: 2010
Address: 426 E LINCOLN AVE

Name: RAY & SONS 2 AUTO REPAIR
Year: 2011
Address: 426 E LINCOLN AVE

Name: RAY & SONS 2 AUTO REPAIR
Year: 2012
Address: 426 E LINCOLN AVE

G29
NNW
1/8-1/4
0.242 mi.
1279 ft.

423 E LINCOLN AVE
ROYAL OAK, MI 48067

Site 3 of 3 in cluster G

EDR US Hist Cleaners 1015059354
N/A

Relative:
Higher

EDR Historical Cleaners:

Name: CONNOR AVENUE COIN LAUNDRY INC
Year: 2005
Address: 423 E LINCOLN AVE

Actual:
650 ft.

H30
WNW
1/4-1/2
0.274 mi.
1445 ft.

GEORGIA PACIFIC PLYWOOD COMPANY
126 EAST HUDSON
ROYAL OAK, MI 48067

Site 1 of 3 in cluster H

MI BEA S106676456
N/A

Relative:
Higher

BEA:

Secondary Address: Not reported
BEA Number: 2525
District: Southeast MI
Date Received: 09/15/2004
Submitter Name: Kasco Equities, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: mitchelf
Division Assigned: Storage Tank Division

Actual:
657 ft.

Secondary Address: Not reported
BEA Number: 2526
District: Southeast MI
Date Received: 09/15/2004
Submitter Name: Hudson Street, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: mitchelf
Division Assigned: Storage Tank Division

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

H31 INDUSTRIAL BUILDING
WNW 126 E HUDSON
1/4-1/2 ROYAL OAK, MI 99999
0.274 mi.
1445 ft.

MI LUST S106687622
MI RGA LUST N/A
MI WDS

Relative:
Higher

Actual:
657 ft.

LUST:

Facility ID: 50005395
Source: STATE OF MICHIGAN
Owner Name: OWNER ADDRESS UNKNOWN
Owner Address: Not Recorded
Owner City,St,Zip: Not Recorded, XX 99999
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: SE Michigan District Office
Site Name: Industrial Building
Latitude: 42.48199
Longitude: -83.14350
Date of Collection: Not reported
Method of Collection: Interpolation-Map
Accuracy: 15
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Not reported

Leak Number: C-0412-04
Release Date: 09/15/2004
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

RGA LUST:

2012	INDUSTRIAL BUILDING	126 E HUDSON
2011	INDUSTRIAL BUILDING	126 E HUDSON
2010	INDUSTRIAL BUILDING	126 E HUDSON
2009	INDUSTRIAL BUILDING	126 E HUDSON
2008	INDUSTRIAL BUILDING	126 E HUDSON
2007	INDUSTRIAL BUILDING	126 E HUDSON
2006	INDUSTRIAL BUILDING	126 E HUDSON
2005	INDUSTRIAL BUILDING	126 E HUDSON
2004	INDUSTRIAL BUILDING	126 E HUDSON

WDS:

Site Id: MIR000020396
WMD Id: 411215
Site Specific Name: TUBE FABRICATING TOOL CO
Mailing Address: 126 E HUDSON AVE
Mailing City/State/Zip: 48067
Mailing County: OAKLAND

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

H32
WNW
1/4-1/2
0.281 mi.
1485 ft.
LIGHT INDUSTRIAL BUILDING
120 EAST HUDSON
ROYAL OAK, MI 48067
Site 3 of 3 in cluster H

MI BEA S107812363
N/A

Relative:
Higher
Actual:
657 ft.
BEA:
Secondary Address: Not reported
BEA Number: 3127
District: Southeast MI
Date Received: 04/26/2006
Submitter Name: 120 Hudson, LLC
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: Denied
Reviewer: mathewsb
Division Assigned: Environmental Response Division

33
West
1/4-1/2
0.288 mi.
1521 ft.
HOLIDAY MARKET CATERING
1203 SOUTH MAIN STREET
ROYAL OAK, MI

MI BEA S108236764
N/A

Relative:
Higher
Actual:
658 ft.
BEA:
Secondary Address: Not reported
BEA Number: 3362
District: Southeast MI
Date Received: 11/21/2006
Submitter Name: Viogold, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: mathewsb
Division Assigned: Environmental Response Division

34
WSW
1/4-1/2
0.289 mi.
1524 ft.
CITY OF ROYAL OAK DOWNTOWN DEV
1312 S MAIN ST
ROYAL OAK, MI 48067

MI LUST U001148644
MI UST N/A
MI RGA LUST

Relative:
Higher
Actual:
658 ft.
LUST:
Facility ID: 00037288
Source: STATE OF MICHIGAN
Owner Name: City Of Royal Oak
Owner Address: Non Responsive
Owner City, St, Zip:
Owner Contact:
Owner Phone:
Country: USA
District: SE Michigan District Office
Site Name: Royal Oak Downtown Dev. Authorit
Latitude: 42.47831
Longitude: -83.14416
Date of Collection: 01/11/2001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF ROYAL OAK DOWNTOWN DEV (Continued)

U001148644

Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0378-93
Release Date: 03/24/1993
Substance Released: Gasoline
Release Status: Closed
Release Closed Date: 07/21/1993

UST:

Facility ID: 00037288
Facility Type: CLOSED
Owner Name: CITY OF ROYAL OAK
Owner Address: Non Responsive
Owner City,St,Zip:
Owner Country:
Owner Contact:
Owner Phone:

Contact: CHARLIE DIMAGGIO
Contact Phone: (734) 544-6644
Date of Collection: 01/11/2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
Latitude: 42.47831
Longitude: -83.14416

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 1000
Product: Gasoline
Install Date: Not reported
Remove Date: 03/18/1993
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank,Suction: Valve at Tank
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 1000
Product: Gasoline
Install Date: Not reported
Remove Date: 03/18/1993
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF ROYAL OAK DOWNTOWN DEV (Continued)

U001148644

Piping Type: Suction: No Valve At Tank, Suction: Valve at Tank
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

RGA LUST:

2012	CITY OF ROYAL OAK DOWNTOWN DEV	1312 S MAIN ST
2011	CITY OF ROYAL OAK DOWNTOWN DEV	1312 S MAIN ST
2010	CITY OF ROYAL OAK DOWNTOWN DEV	1312 S MAIN ST
2009	CITY OF ROYAL OAK DOWNTOWN DEV	1312 S MAIN ST
2008	CITY OF ROYAL OAK DOWNTOWN DEV	1312 S MAIN ST
2007	CITY OF ROYAL OAK DOWNTOWN DEV	1312 S MAIN ST
2006	CITY OF ROYAL OAK DOWNTOWN DEV	1312 S MAIN ST
2005	CITY OF ROYAL OAK DOWNTOWN DEV	1312 S MAIN ST
2004	CITY OF ROYAL OAK DOWNTOWN DEV	1312 S MAIN ST
2003	CITY OF ROYAL OAK DOWNTOWN DEV	1312 S MAIN ST
2001	CITY OF ROYAL OAK DOWNTOWN DEV	1312 S MAIN

I35
NW
1/4-1/2
0.331 mi.
1748 ft.

PARKS DEVELOPMENT, LLC
916 SOUTH MAIN STREET
ROYAL OAK, MI

MI BEA S105542007
N/A

Site 1 of 3 in cluster I

Relative:
Higher

Actual:
660 ft.

BEA:
Secondary Address: Not reported
BEA Number: 1676
District: Southeast MI
Date Received: 04/18/2002
Submitter Name: Parks Development, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: mathewsb
Division Assigned: Environmental Response Division

I36
NW
1/4-1/2
0.333 mi.
1758 ft.

905 S MAIN STREET
ROYAL OAK, MI

MI RGA LUST S114156775
N/A

Site 2 of 3 in cluster I

Relative:
Higher

Actual:
660 ft.

RGA LUST:

2000	ERB LUMBER CO. INC	905 S MAIN STREET
1999	ERB LUMBER CO. INC	905 S MAIN STREET
1998	ERB LUMBER CO. INC	905 S MAIN STREET
1997	ERB LUMBER CO. INC	905 S MAIN STREET
1991	ERB LUMBER	905 S MAIN STREET

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

I37
NW
1/4-1/2
0.333 mi.
1758 ft.
ERB LUMBER CO INC
905 S MAIN ST
ROYAL OAK, MI 48067
Site 3 of 3 in cluster I

MI LUST U000263087
MI UST N/A
MI AST
MI WDS
MI RGA LUST

Relative:
Higher

Actual:
660 ft.

LUST:

Facility ID: 00010851
Source: STATE OF MICHIGAN
Owner Name: Erb Lumber Co
Owner Address: Non Responsive
Owner City,St,Zip:
Owner Contact:
Owner Phone:
Country: USA
District: SE Michigan District Office
Site Name: Erb Lumber- Main St
Latitude: 42.48249
Longitude: -83.14395
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0012-90
Release Date: 01/03/1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: 11/04/1993

UST:

Facility ID: 00010851
Facility Type: CLOSED
Owner Name: ERB LUMBER CO
Owner Address: Non Responsive
Owner City,St,Zip:
Owner Country:
Owner Contact:
Owner Phone:
Contact: JOHN M. DOROSZ
Contact Phone: (313) 644-5300
Date of Collection: 01/11/2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
Latitude: 42.48249
Longitude: -83.14395

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 6000
Product: Gasoline
Install Date: 05/02/1961

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ERB LUMBER CO INC (Continued)

U000263087

Remove Date: 10/04/1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Construction Material: Unknown
Impressed Device: No

AST:

Facility ID: 92063249
Type: AST
Facility Phone: (313) 548-2153
Owner Name: ERB LUMBER
Owner Address: Non Responsive
Owner City,St,Zip:
Owner County: USA
Owner Contact: Russell Porter
Owner Telephone: Non Responsive
District: SE Michigan District Office
Contact: VINCE PLETS
Latitude: Not reported
Longitude: -83.143953
Date of Collection: 01/11/2001
Accuracy: 100 FEET
Horizontal Datum: NAD83

WDS:

Site Id: MIG000032015
WMD Id: 447175
Site Specific Name: ERB LUMBER
Mailing Address: 905 S MAIN ST
Mailing City/State/Zip: 48067
Mailing County: OAKLAND

RGA LUST:

2012	ERB LUMBER CO INC	905 S MAIN ST
2011	ERB LUMBER CO INC	905 S MAIN ST
2010	ERB LUMBER CO INC	905 S MAIN ST
2009	ERB LUMBER CO INC	905 S MAIN ST
2008	ERB LUMBER CO INC	905 S MAIN ST
2007	ERB LUMBER CO INC	905 S MAIN ST
2006	ERB LUMBER CO INC	905 S MAIN ST
2005	ERB LUMBER CO INC	905 S MAIN ST
2004	ERB LUMBER CO INC	905 S MAIN ST
2003	ERB LUMBER CO INC	905 S MAIN ST
2001	ERB LUMBER CO INC	905 S MAIN ST

J38
NW
1/4-1/2
0.366 mi.
1933 ft.
SHELL STATION
735 S MAIN
ROYAL OAK, MI 48067
Site 1 of 3 in cluster J

Relative:
Higher

Actual:
661 ft.

LUST:

Facility ID: 00010435
Source: STATE OF MICHIGAN
Owner Name: Shell Station

MI LUST U003321862
MI UST N/A
MI AUL
MI WDS
MI RGA LUST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL STATION (Continued)

U003321862

Owner Address: Non Responsive
Owner City,St,Zip: Non Responsive
Owner Contact: Non Responsive
Owner Phone: Non Responsive
Country: USA
District: SE Michigan District Office
Site Name: Shell- S. Main At Lincoln #1
Latitude: 42.48365
Longitude: -83.14337
Date of Collection: 05/16/2007
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-1060-89
Release Date: 12/08/1989
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1840-91
Release Date: 09/05/1991
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00010435
Facility Type: ACTIVE
Owner Name: Non Responsive
Owner Address: Non Responsive
Owner City,St,Zip: Non Responsive
Owner Country: USA
Owner Contact: Not reported
Owner Phone: Non Responsive
Contact: David Jaber
Contact Phone: (313) 680-9006
Date of Collection: 05/16/2007
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Latitude: 42.48365
Longitude: -83.14337

Tank ID: 1
Tank Status: Currently In Use
Capacity: 10000
Product: Gasoline
Install Date: 12/01/1984
Remove Date: Not reported
Tank Release Detection: Inventory Control, Automatic Tank Gauging

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL STATION (Continued)

U003321862

Pipe Release Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass Reinforced Plastic
Piping Type: Pressure
Construction Material: Fiberglass Reinforced Plastic
Impressed Device: No

Tank ID: 2
Tank Status: Currently In Use
Capacity: 10000
Product: Gasoline
Install Date: 12/01/1984
Remove Date: Not reported
Tank Release Detection: Inventory Control, Automatic Tank Gauging
Pipe Release Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass Reinforced Plastic
Piping Type: Pressure
Construction Material: Fiberglass Reinforced Plastic
Impressed Device: No

Tank ID: 3
Tank Status: Currently In Use
Capacity: 10000
Product: Gasoline
Install Date: 12/01/1970
Remove Date: Not reported
Tank Release Detection: Inventory Control, Automatic Tank Gauging
Pipe Release Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass Reinforced Plastic
Piping Type: Pressure
Construction Material: Fiberglass Reinforced Plastic
Impressed Device: No

Tank ID: 4
Tank Status: Removed from Ground
Capacity: 550
Product: Used Oil
Install Date: 04/24/1960
Remove Date: 09/01/1989
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 8
Tank Status: Removed from Ground
Capacity: 1000
Product: Used Oil
Install Date: 12/01/1989
Remove Date: 03/24/1997
Tank Release Detection: Groundwater Monitoring, Inventory Control, Manual Tank Gauging, Tank Tightness Testing

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL STATION (Continued)

U003321862

Pipe Realease Detection: Automatic Line Leak Detectors,GroundWater Monitoring,Interstitial
Monitoring/Second Containment,Line Tightness Testing
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Construction Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 9
Tank Status: Currently In Use
Capacity: 600
Product: Used Oil
Install Date: Not reported
Remove Date: Not reported
Tank Release Detection: Manual Tank Gauging, Tank Tightness Testing
Pipe Realease Detection: Not reported
Piping Material: Fiberglass Reinforced Plastic, Double Walled
Piping Type: Gravity Fed?
Construction Material: Composite (Steel with Fiberglass)
Impressed Device: No

AUL:

Status: Pending
Site Name: Not reported
Property: on-site
Land Use Restriction Type: RC
Program Type: Part 213
Program Support Assigned User: Not reported
Program Support Assigned Date: Not reported
Legal Description Of Property: Not reported
Based On The Deq Ref #: 11421312054
MDEQ Reference Number: RC-RD-213-12-054
Property Or Description Restricted Area: Not reported
Lead Division: RD
File Name Of Hyperlinked Legal Doc: Not reported
Mapped Polygons Area In Acres: Not reported
Mapped Polygons Area In Square Miles: Not reported
Date Data Entry Started: Not reported
Date Data Entry Finished: Not reported
Individual Or Staff Assoc With The Mapping: Not reported
Program Used To Map Restricted Features: Not reported
Map Comments: Not reported
Comment: April 18, 2012 consultant requested DEQ reference #.
Date Legal Paperwork Stamped/Filed/Register Of Deeds: Not reported
Commercial I Land Use Restriction: 0
Commercial II Land Use Restriction: 0
Commercial III Land Use Restriction: 0
Commercial IV Land Use Restriction: 0
Industrial Land Use Restriction: 0
Residential Land Use Restriction: 0
Recreational Land Use Restriction: 0
Multiple Land-Use Restrictions: 0
Site Specific Restrictions: 0
Groundwater Consumption Restrictions: 0
Groundwater Contact Restrictions: 0
Special Well Construction Requirements: 0
Special Building Restrictions: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL STATION (Continued)

U003321862

Excavation And Soil Movement Restrictions: 0
Soil Movement Requirements: 0
There Is A Restriction On All Construction: 0
Monitoring Well Protected, No Tampering Or Removal: 0
There Is An Exposure Barrier In Place: 0
There Is A Health And Safety Plan: 0
There Is A Permanent Marker On The Site: 0

WDS:

Site Id: MIG000054310
WMD Id: 426825
Site Specific Name: EQUILON ENTERPRISES
Mailing Address: 735 S MAIN ST
Mailing City/State/Zip: 48067
Mailing County: OAKLAND

RGA LUST:

2012 SHELL STATION 735 S MAIN
2011 SHELL STATION 735 S MAIN
2010 SHELL STATION 735 S MAIN
2009 SHELL STATION 735 S MAIN
2008 SHELL STATION 735 S MAIN
2007 SHELL STATION 735 S MAIN
2006 SHELL STATION 735 S MAIN
2005 SHELL STATION 735 S MAIN
1991 SHELL OIL 735 S MAIN

J39
NW
1/4-1/2
0.372 mi.
1962 ft.
FORMER GASOLINE STATION
802 S MAIN ST
ROYAL OAK, MI 48067
Site 2 of 3 in cluster J

MI LUST **U003326746**
MI RGA LUST **N/A**
MI WDS

Relative:
Higher

Actual:
661 ft.

LUST:

Facility ID: 00039537
Source: STATE OF MICHIGAN
Owner Name: OWNER ADDRESS UNKNOWN
Owner Address: Not Recorded
Owner City,St,Zip: Not Recorded, XX 99999
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: SE Michigan District Office
Site Name: Former Gasoline Station
Latitude: 42.48332
Longitude: -83.14436
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0469-04
Release Date: 10/20/2004
Substance Released: Unknown
Release Status: Open

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FORMER GASOLINE STATION (Continued)

U003326746

Release Closed Date: Not reported

RGA LUST:

2012	FORMER GASOLINE STATION	802 S MAIN ST
2011	FORMER GASOLINE STATION	802 S MAIN ST
2010	FORMER GASOLINE STATION	802 S MAIN ST
2009	FORMER GASOLINE STATION	802 S MAIN ST
2008	FORMER GASOLINE STATION	802 S MAIN ST
2007	FORMER GASOLINE STATION	802 S MAIN ST
2006	FORMER GASOLINE STATION	802 S MAIN ST
2005	FORMER GASOLINE STATION	802 S MAIN ST
2004	FORMER GASOLINE STATION	802 S MAIN ST

WDS:

Site Id: MIG000012331
WMD Id: 456303
Site Specific Name: AMERICAN TRANSMISSION
Mailing Address: 802 S MAIN ST
Mailing City/State/Zip: 48067
Mailing County: OAKLAND

J40
NW
1/4-1/2
0.372 mi.
1964 ft.

AMERICAN TRANSMISSIONS
802 SOUTH MAIN
ROYAL OAK, MI

MI BEA S106676447
N/A

Site 3 of 3 in cluster J

Relative:
Higher

BEA:

Secondary Address: Not reported
BEA Number: 2553
District: Southeast MI
Date Received: 10/20/2004
Submitter Name: Citizens Bank
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: mitchelf
Division Assigned: Storage Tank Division

Actual:
661 ft.

K41
West
1/4-1/2
0.410 mi.
2165 ft.

ROYAL AUTO REPAIR, INC. (FORMER)
1200 SOUTH WASHINGTON AVENUE
ROYAL OAK, MI

MI BEA S104912035
N/A

Site 1 of 2 in cluster K

Relative:
Higher

BEA:

Secondary Address: Not reported
BEA Number: 148
District: Southeast MI
Date Received: 08/07/1996
Submitter Name: MR. VINCENT LEE
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: tempm

Actual:
664 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROYAL AUTO REPAIR, INC. (FORMER) (Continued)

S104912035

Division Assigned: Environmental Response Division

Secondary Address: Not reported
BEA Number: 768
District: Southeast MI
Date Received: 11/23/1998
Submitter Name: MR. DAN COSTELLO
Petition Determination: Affirmed
Petition Disclosure: 1
Category: Different Hazardous Substance(s)
Determination 20107A: Affirmed
Reviewer: macugam
Division Assigned: Storage Tank Division

K42
West
1/4-1/2
0.410 mi.
2165 ft.
ROYAL AUTO REPAIR INC
1200 S WASHINGTON AVE
ROYAL OAK, MI 48067
Site 2 of 2 in cluster K

MI LUST U003326590
MI UST N/A
MI WDS
MI RGA LUST

Relative:
Higher

Actual:
664 ft.

LUST:
Facility ID: 00038993
Source: STATE OF MICHIGAN
Owner Name: Non Responsive
Owner Address: [REDACTED]
Owner City, St, Zip: [REDACTED]
Owner Contact: Not reported
Owner Phone: Non
Country: USA
District: SE Michigan District Office
Site Name: Royal Auto Repair Inc
Latitude: 42.47933
Longitude: -83.14655
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-1224-98
Release Date: 12/02/1998
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00038993
Facility Type: CLOSED
Owner Name: Non Responsive
Owner Address: [REDACTED]
Owner City, St, Zip: [REDACTED]
Owner Country: USA
Owner Contact: Not reported
Owner Phone: Non
Contact: ALBERT MATTI
Contact Phone: (248) 543-9865

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROYAL AUTO REPAIR INC (Continued)

U003326590

Date of Collection: 01/11/2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
Latitude: 42.47933
Longitude: -83.14655

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 200
Product: Used Oil
Install Date: Not reported
Remove Date: 05/30/1996
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Suction: No Valve At Tank
Construction Material: Unknown
Impressed Device: No

WDS:

Site Id: MIG000046177
WMD Id: 440414
Site Specific Name: VINCE LEE
Mailing Address: 1200 S WASHINGTON AVE
Mailing City/State/Zip: 48067
Mailing County: OAKLAND

RGALUST:

2012	ROYAL AUTO REPAIR INC	1200 S WASHINGTON AVE
2011	ROYAL AUTO REPAIR INC	1200 S WASHINGTON AVE
2010	ROYAL AUTO REPAIR INC	1200 S WASHINGTON AVE
2009	ROYAL AUTO REPAIR INC	1200 S WASHINGTON AVE
2008	ROYAL AUTO REPAIR INC	1200 S WASHINGTON AVE
2007	ROYAL AUTO REPAIR INC	1200 S WASHINGTON AVE
2006	ROYAL AUTO REPAIR INC	1200 S WASHINGTON AVE
2005	ROYAL AUTO REPAIR INC	1200 S WASHINGTON AVE
2004	ROYAL AUTO REPAIR INC	1200 S WASHINGTON AVE
2003	ROYAL AUTO REPAIR INC	1200 S WASHINGTON AVE
2001	ROYAL AUTO REPAIR INC	1200 S WASHINGTON
2000	ROYAL AUTO REPAIR INC	1200 S WASHINGTON
1999	ROYAL AUTO REPAIR INC	1200 S WASHINGTON

43
WNW
1/4-1/2
0.420 mi.
2217 ft.

1022 S. WASHINGTON, LLC
1022 S. WASHINGTON
ROYAL OAK, MI 48067

MI BEA S111455157
N/A

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 5070
District: Southeast MI
Date Received: 02/06/2012

Actual:
664 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1022 S. WASHINGTON, LLC (Continued)

S111455157

Submitter Name: 1022 S. Washington, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Not reported
Determination 20107A: No Request
Reviewer: berakr
Division Assigned: RD

44
SSE
1/4-1/2
0.421 mi.
2223 ft.

CITY OF PLEASANT RIDGE DPW
92 AMHERST RD
PLEASANT RIDGE, MI 48069

MI LUST U003329716
MI UST N/A
MI WDS
MI RGA LUST

Relative:
Lower

Actual:
645 ft.

LUST:

Facility ID: 00000898
Source: STATE OF MICHIGAN
Owner Name: City Of Pleasant Ridge
Owner Address: Non Responsive
Owner City,St,Zip: Non Responsive
Owner Contact: Not reported
Owner Phone: Non
Country: USA
District: SE Michigan District Office
Site Name: City Of Pleasant Ridge Dpw
Latitude: 42.47181
Longitude: -83.13472
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-1107-97
Release Date: 11/12/1997
Substance Released: Gasoline
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00000898
Facility Type: CLOSED
Owner Name: CITY OF PLEASANT RIDGE
Owner Address: Non Responsive
Owner City,St,Zip: Non Responsive
Owner Country: USA
Owner Contact: Not reported
Owner Phone: Non
Contact: JOSEPH MERUCCI
Contact Phone: (248) 541-2900
Date of Collection: 01/11/2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF PLEASANT RIDGE DPW (Continued)

U003329716

Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
Latitude: 42.47181
Longitude: -83.13472

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 2000
Product: Gasoline
Install Date: 04/09/1971
Remove Date: 11/03/1997
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Construction Material: Asphalt Coated or Bare Steel
Impressed Device: No

WDS:

Site Id: MIG000017922
WMD Id: 454347
Site Specific Name: CITY OF PLEASANT RIDGE
Mailing Address: 92 AMHERST RD
Mailing City/State/Zip: 48069
Mailing County: OAKLAND

RGALUST:

2012	CITY OF PLEASANT RIDGE DPW	92 AMHERST RD
2011	CITY OF PLEASANT RIDGE DPW	92 AMHERST RD
2010	CITY OF PLEASANT RIDGE DPW	92 AMHERST RD
2009	CITY OF PLEASANT RIDGE DPW	92 AMHERST RD
2008	CITY OF PLEASANT RIDGE DPW	92 AMHERST RD
2007	CITY OF PLEASANT RIDGE DPW	92 AMHERST RD
2006	CITY OF PLEASANT RIDGE DPW	92 AMHERST RD
2005	CITY OF PLEASANT RIDGE DPW	92 AMHERST RD
2004	CITY OF PLEASANT RIDGE DPW	92 AMHERST RD
2003	CITY OF PLEASANT RIDGE DPW	92 AMHERST RD
2001	CITY OF PLEASANT RIDGE DPW	92 AMHERST
2000	CITY OF PLEASANT RIDGE DPW	92 AMHERST
1999	CITY OF PLEASANT RIDGE DPW	92 AMHERST
1998	CITY OF PLEASANT RIDGE DPW	92 AMHERST

45
North
1/4-1/2
0.445 mi.
2350 ft.

TD 4TH STREET PROPERTIES, LLC
610-612 EAST 5TH STREET
ROYAL OAK, MI 48067

MI BEA S109171492
N/A

Relative:
Lower

Actual:
647 ft.

BEA:

Secondary Address: Not reported
BEA Number: 3937
District: Southeast MI
Date Received: 06/18/2008
Submitter Name: TD 4th Street Properties, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TD 4TH STREET PROPERTIES, LLC (Continued)

S109171492

Reviewer: mitchelf
Division Assigned: Storage Tank Division

46
WSW
1/4-1/2
0.464 mi.
2449 ft.

MICHIGAN 101, LLC
25352 WOODWARD AVENUE
ROYAL OAK, MI 48067

MI BEA S111333622
MI WDS N/A

Relative:
Higher

Actual:
665 ft.

BEA:
Secondary Address: Not reported
BEA Number: 4906
District: Southeast MI
Date Received: 09/14/2011
Submitter Name: Michigan 101, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Not reported
Determination 20107A: No Request
Reviewer: berakr
Division Assigned: RD

WDS:

Site Id: MIK188251649
WMD Id: 485591
Site Specific Name: WOODWARD GATEWAY LLC
Mailing Address: 17800 N LAUREL PARK DR
Mailing City/State/Zip: 48152
Mailing County: WAYNE

47
SSW
1/4-1/2
0.494 mi.
2607 ft.

TALON HOMES-PLEASANT RIDGE, LLC
24000 WOODWARD AVENUE
PLEASANT RIDGE, MI 48069

MI BEA S106174391
MI WDS N/A

Relative:
Higher

Actual:
650 ft.

BEA:
Secondary Address: Parcel B
BEA Number: 2514
District: Southeast MI
Date Received: 09/09/2004
Submitter Name: Comerica Bank
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: mathewsb
Division Assigned: Environmental Response Division

Secondary Address: Not reported
BEA Number: 2318
District: Southeast MI
Date Received: 03/08/2004
Submitter Name: Talon Homes-Pleasant Ridge, LLC
Petition Determination: Affirmed
Petition Disclosure: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TALON HOMES-PLEASANT RIDGE, LLC (Continued)

S106174391

Category: No Hazardous Substance(s)
Determination 20107A: Affirmed
Reviewer: mitchell
Division Assigned: Environmental Response Division

48
NW
1/2-1
0.684 mi.
3613 ft.

ROYAL OAK PROJECT
4TH & LAFAYETTE
ROYAL OAK, MI 48067

MI SHWS S103594513
MI RGA HWS N/A

Relative:
Higher

SHWS:

Facility ID: 63000098
Facility Status: Inactive - no actions taken to address contamination
Source: Depository Institutions
SAM Score: 29
SAM Score Date: 01/26/2004
Township: 01N
Range: 11E
Section: 21
Quarter: NE
Quarter/Quarter: NE
Pollutants: PCE; Toluene; TCE; Xylenes

Actual:
663 ft.

RGA HWS:

2012	ROYAL OAK PROJECT	4TH & LAFAYETTE
2011	ROYAL OAK PROJECT	4TH & LAFAYETTE
2010	ROYAL OAK PROJECT	4TH & LAFAYETTE
2009	ROYAL OAK PROJECT	4TH & LAFAYETTE
2008	ROYAL OAK PROJECT	4TH & LAFAYETTE
2007	ROYAL OAK PROJECT	4TH & LAFAYETTE
2006	ROYAL OAK PROJECT	4TH & LAFAYETTE
2005	ROYAL OAK PROJECT	4TH & LAFAYETTE
2004	ROYAL OAK PROJECT	4TH & LAFAYETTE
2003	ROYAL OAK PROJECT	4TH & LAFAYETTE
2002	ROYAL OAK PROJECT	4TH & LAFAYETTE
2001	ROYAL OAK PROJECT	4TH & LAFAYETTE
2000	ROYAL OAK PROJECT	4TH & LAFAYETTE
1999	ROYAL OAK PROJECT	4TH & LAFAYETTE
1998	ROYAL OAK PROJECT	4TH & LAFAYETTE
1997	ROYAL OAK PROJECT	4TH & LAFAYETTE
1996	ROYAL OAK PROJECT	4TH & LAFAYETTE
1995	ROYAL OAK PROJECT	4TH & LAFAYETTE
1994	ROYAL OAK PROJECT	4TH & LAFAYETTE
1993	ROYAL OAK PROJECT	4TH & LAFAYETTE
1991	ROYAL OAK PROJECT	4TH & LAFAYETTE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

L49 REICHHOLD CHEM INC
SSE 601 WOODWARD HEIGHTS BLVD
1/2-1 FERNDAL, MI 48220
0.696 mi.
3676 ft. Site 1 of 2 in cluster L

RCRA-TSDF 1000170771
CERC-NFRAP MID020087128
CORRACTS
RCRA-LQG
NY MANIFEST
2020 COR ACTION

Relative:
Lower

Actual:
645 ft.

RCRA-TSDF:

Date form received by agency: 10/19/2012
Facility name: REICHHOLD INC
Facility address: 601 WOODWARD HTS
FERNDAL, MI 48220
EPA ID: MID020087128
Mailing address: ATTN JOHN OLDHAM
RTP, NC 27709
Contact: JOHN OLDHAM
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (919) 990-7789
Contact email: JOHN.OLDHAM@REICHHOLD.COM
EPA Region: 05
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: REICHHOLD CHEMICALS INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/12/1930
Owner/Op end date: Not reported

Owner/operator name: REICHHOLD CHEMICALS INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/12/1930

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Owner/Op end date: Not reported

Owner/operator name: REICHHOLD CHEMICALS INC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/12/1930
Owner/Op end date: Not reported

Owner/operator name: REICHHOLD CHEMICALS INC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/12/1930
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 03/13/2012
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Date form received by agency: 03/13/2012
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Date form received by agency: 04/25/2011
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Date form received by agency: 02/28/2010
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Date form received by agency: 02/28/2010
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Date form received by agency: 03/01/2008
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Date form received by agency: 02/26/2008
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Date form received by agency: 03/01/2006
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Date form received by agency: 03/01/2004
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Date form received by agency: 03/20/2003
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Date form received by agency: 11/14/2002
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Date form received by agency: 09/11/2002
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Date form received by agency: 03/01/2002
Facility name: REICHHOLD INC
Site name: REICHHOLD CHEMICALS INC
Classification: Large Quantity Generator

Date form received by agency: 02/16/2000
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Date form received by agency: 02/25/1998
Facility name: REICHHOLD INC
Site name: REICHHOLD CHEMICALS, INC.
Classification: Large Quantity Generator

Date form received by agency: 02/23/1996
Facility name: REICHHOLD INC
Site name: REICHHOLD CHEMICALS, INC.
Classification: Large Quantity Generator

Date form received by agency: 07/31/1995
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Date form received by agency: 02/21/1994
Facility name: REICHHOLD INC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Site name: REICHHOLD CHEMICALS INCORPORATED
Classification: Large Quantity Generator

Date form received by agency: 03/31/1992
Facility name: REICHHOLD INC
Site name: REICHHOLD CHEMICALS, INC.
Classification: Large Quantity Generator

Date form received by agency: 11/11/1980
Facility name: REICHHOLD INC
Classification: Not a generator, verified

Date form received by agency: 08/12/1980
Facility name: REICHHOLD INC
Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D013
Waste name: LINDANE
Amount (Lbs): 300

Waste code: D043
Waste name: VINYL CHLORIDE
Amount (Lbs): 200

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 1300

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS

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REICHHOLD CHEM INC (Continued)

1000170771

CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Amount (Lbs): 300

Corrective Action Summary:

Event date: 05/17/1990
Event: RFA Completed

Event date: 05/17/1990
Event: RFA Determination Of Need For An RFI, RFI is Necessary;

Event date: 09/27/1991
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 03/31/1993
Event: CA Prioritization, Facility or area was assigned a high corrective action priority.

Event date: 06/30/1993
Event: Stabilization Measures Evaluation, This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.

Event date: 06/22/1994
Event: RFI Imposition, Focused data collection required for stabilization evaluation.

Event date: 08/13/1994
Event: RFI Workplan Received

Event date: 09/30/1994
Event: RFI Workplan Notice Of Deficiency Issued

Event date: 04/04/1996
Event: FI Progress Reports Received

Event date: 06/07/1996
Event: FI Progress Reports Received

Event date: 06/21/1996
Event: CA086

Event date: 06/25/1996
Event: RFI Supplemental Information Deemed Satisfactory

Event date: 07/10/1996
Event: CA077

Event date: 08/29/1996
Event: CA076

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REICHHOLD CHEM INC (Continued)

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Event date:	09/04/1996
Event:	CA606FI
Event date:	09/07/1996
Event:	FI Progress Reports Received
Event date:	09/07/1996
Event:	RFI Report Received
Event date:	09/23/1996
Event:	CA536
Event date:	10/06/1996
Event:	Stabilization Measures Implemented, Other Activity
Event date:	10/06/1996
Event:	CA609
Event date:	10/08/1996
Event:	Stabilization Measures Implemented, Groundwater extraction and treatment (e.g., to achieve groundwater containment, to achieve MCL).
Event date:	10/08/1996
Event:	CA607
Event date:	10/08/1996
Event:	Stabilization Construction Completed
Event date:	10/10/1996
Event:	FI Progress Reports Received
Event date:	10/14/1996
Event:	RFI Workplan Approved
Event date:	12/16/1996
Event:	RFI Report Received
Event date:	01/03/1997
Event:	CA608
Event date:	01/03/1997
Event:	RFI Supplemental Information Deemed Satisfactory
Event date:	02/04/1997
Event:	CA077
Event date:	03/21/1997
Event:	CMI Workplan Approved
Event date:	03/24/1997
Event:	Stabilization Construction Completed
Event date:	03/24/1997
Event:	Stabilization Measures Implemented, Primary measure is exposure control by barrier and/or institutional control (e.g., capping, fencing, deed restrictions).

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REICHHOLD CHEM INC (Continued)

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Event date:	03/24/1997
Event:	CA606FI
Event date:	03/26/1997
Event:	Stabilization Measures Implemented, Primary measure is source removal and/or treatment (e.g., soil or waste excavation, in-situ soil treatment, off-site treatment).
Event date:	03/26/1997
Event:	Stabilization Construction Completed
Event date:	03/26/1997
Event:	CA536
Event date:	03/28/1997
Event:	CA536
Event date:	03/28/1997
Event:	Stabilization Measures Implemented, Primary measure is source removal and/or treatment (e.g., soil or waste excavation, in-situ soil treatment, off-site treatment).
Event date:	03/28/1997
Event:	Stabilization Construction Completed
Event date:	04/10/1997
Event:	RFI Report Received
Event date:	04/10/1997
Event:	FI Progress Reports Received
Event date:	04/23/1997
Event:	CA076
Event date:	05/19/1997
Event:	CA077
Event date:	10/06/1997
Event:	Corrective Action Process Terminated, No Further Action
Event date:	10/17/1997
Event:	Corrective Action Process Terminated, Remedial Activities Completed
Event date:	12/12/1997
Event:	Corrective Measures Design Approved
Event date:	01/01/1998
Event:	RFI Workplan Received
Event date:	01/08/1998
Event:	CMS Workplan Received
Event date:	01/08/1998
Event:	CMS Imposition
Event date:	04/13/1998
Event:	RFI Report Received

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REICHHOLD CHEM INC (Continued)

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Event date: 04/24/1998
Event: Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Event date: 04/24/1998
Event: CMI Workplan Approved

Event date: 04/24/1998
Event: CA608

Event date: 04/24/1998
Event: Stabilization Construction Completed

Event date: 04/24/1998
Event: Stabilization Measures Implemented, Groundwater extraction and treatment (e.g., to achieve groundwater containment, to achieve MCL).

Event date: 05/28/1998
Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Event date: 06/04/1998
Event: CA606FI

Event date: 07/10/1998
Event: FI Progress Reports Received

Event date: 08/22/1998
Event: FI Progress Reports Received

Event date: 10/14/1998
Event: CA607

Event date: 10/22/1998
Event: FI Progress Reports Received

Event date: 01/06/1999
Event: FI Progress Reports Received

Event date: 01/27/1999
Event: Stabilization Measures Implemented, Groundwater extraction and treatment (e.g., to achieve groundwater containment, to achieve MCL).

Event date: 02/23/1999

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REICHHOLD CHEM INC (Continued)

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Event:	Date For Remedy Selection (CM Imposed)
Event date:	05/24/1999
Event:	FI Progress Reports Received
Event date:	06/02/1999
Event:	CA550RC
Event date:	07/26/1999
Event:	FI Progress Reports Received
Event date:	12/16/1999
Event:	FI Progress Reports Received
Event date:	03/20/2000
Event:	FI Progress Reports Received
Event date:	05/04/2000
Event:	Stabilization Measures Implemented, Groundwater extraction and treatment (e.g., to achieve groundwater containment, to achieve MCL).
Event date:	07/14/2000
Event:	CA196
Event date:	11/10/2000
Event:	FI Progress Reports Received
Event date:	11/10/2000
Event:	FI Progress Reports Received
Event date:	11/20/2000
Event:	RFI Report Received
Event date:	01/12/2001
Event:	RFI Approved
Event date:	02/08/2001
Event:	CMS Progress Reports Received
Event date:	03/27/2001
Event:	CMS Progress Reports Received
Event date:	09/10/2001
Event:	CMS Progress Reports Received
Event date:	12/28/2001
Event:	CMS Report Received
Event date:	04/01/2002
Event:	CA550RC
Event date:	05/24/2002
Event:	CMS Progress Reports Received
Event date:	10/03/2002
Event:	CMS Progress Reports Received

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REICHHOLD CHEM INC (Continued)

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Event date:	01/20/2003
Event:	RFI Supplemental Information Received
Event date:	05/13/2003
Event:	CA550RC
Event date:	05/23/2003
Event:	CMS Progress Reports Received
Event date:	10/15/2003
Event:	CMS Progress Reports Received
Event date:	12/23/2003
Event:	CMS Workplan Modification Requested By Agency
Event date:	03/01/2004
Event:	CMS Workplan Approved
Event date:	03/30/2004
Event:	CMS Report Received
Event date:	04/05/2004
Event:	CMS Progress Reports Received
Event date:	02/10/2005
Event:	CA076
Event date:	03/23/2005
Event:	CMS Progress Reports Received
Event date:	04/18/2005
Event:	CMS Approved
Event date:	04/18/2005
Event:	Date For Remedy Selection (CM Imposed)
Event date:	05/20/2005
Event:	CMS Progress Reports Received
Event date:	01/17/2006
Event:	CA550RC
Event date:	06/20/2006
Event:	Corrective Measures Design Approved
Event date:	08/03/2006
Event:	CA536
Event date:	09/15/2006
Event:	CA800YE
Event date:	09/15/2006
Event:	Corrective Action Process Terminated, No Further Action
Event date:	08/01/2008
Event:	CA546

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REICHHOLD CHEM INC (Continued)

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Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 07/23/2008
Date achieved compliance: 12/18/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/07/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 07/23/2008
Date achieved compliance: 12/18/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/07/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 07/23/2008
Date achieved compliance: 12/18/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/07/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 07/23/2008
Date achieved compliance: 12/18/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/07/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

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REICHHOLD CHEM INC (Continued)

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Regulation violated: Not reported
Area of violation: Permits - Conditions
Date violation determined: 12/18/2001
Date achieved compliance: 02/06/2002
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/18/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Corrective Action for SWMUs
Date violation determined: 08/16/2000
Date achieved compliance: 01/23/2001
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/29/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 08/16/2000
Date achieved compliance: 01/23/2001
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/29/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Releases from SWMUs
Date violation determined: 11/15/1999
Date achieved compliance: 02/24/2000
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/15/1999
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

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REICHHOLD CHEM INC (Continued)

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Area of violation: TSD - Financial Requirements
Date violation determined: 09/03/1991
Date achieved compliance: 09/24/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/16/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 09/03/1991
Date achieved compliance: 09/24/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/03/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 09/03/1991
Date achieved compliance: 09/24/1991
Violation lead agency: State
Enforcement action: STATE EQUIVALENT 3008(H) CA ORDER
Enforcement action date: 06/22/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 08/02/1991
Date achieved compliance: 09/24/1991
Violation lead agency: State
Enforcement action: STATE EQUIVALENT 3008(H) CA ORDER
Enforcement action date: 06/22/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General

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REICHHOLD CHEM INC (Continued)

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Date violation determined: 08/02/1991
Date achieved compliance: 09/24/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/03/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 08/30/1990
Date achieved compliance: 03/04/1992
Violation lead agency: State
Enforcement action: STATE EQUIVALENT 3008(H) CA ORDER
Enforcement action date: 06/22/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 08/30/1990
Date achieved compliance: 03/04/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/18/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 09/25/1989
Date achieved compliance: 03/04/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/25/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 09/25/1989

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REICHHOLD CHEM INC (Continued)

1000170771

Date achieved compliance: 03/04/1992
Violation lead agency: State
Enforcement action: STATE EQUIVALENT 3008(H) CA ORDER
Enforcement action date: 06/22/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 09/08/1989
Date achieved compliance: 09/24/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/04/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 09/08/1989
Date achieved compliance: 09/24/1991
Violation lead agency: State
Enforcement action: STATE EQUIVALENT 3008(H) CA ORDER
Enforcement action date: 06/22/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 08/04/1988
Date achieved compliance: 09/27/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/16/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 02/02/2009
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported

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REICHHOLD CHEM INC (Continued)

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Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/23/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 12/18/2008
Evaluation lead agency: State

Evaluation date: 07/23/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Generators
Date achieved compliance: 12/18/2008
Evaluation lead agency: State

Evaluation date: 07/23/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 12/18/2008
Evaluation lead agency: State

Evaluation date: 07/23/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 12/18/2008
Evaluation lead agency: State

Evaluation date: 01/06/2005
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/19/2002
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/14/2002
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/31/2002
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/16/2002
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

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REICHHOLD CHEM INC (Continued)

1000170771

Evaluation date: 12/18/2001
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Permits - Conditions
Date achieved compliance: 02/06/2002
Evaluation lead agency: State

Evaluation date: 09/27/2001
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/11/2001
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/16/2001
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/02/2001
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/16/2000
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: TSD - Corrective Action for SWMUs
Date achieved compliance: 01/23/2001
Evaluation lead agency: State

Evaluation date: 08/16/2000
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: LDR - General
Date achieved compliance: 01/23/2001
Evaluation lead agency: State

Evaluation date: 12/14/1999
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/15/1999
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: TSD - Releases from SWMUs
Date achieved compliance: 02/24/2000
Evaluation lead agency: State

Evaluation date: 11/04/1999
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported

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REICHHOLD CHEM INC (Continued)

1000170771

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/26/1997
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/05/1997
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/04/1996
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/20/1996
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/10/1996
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/02/1996
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/03/1996
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/10/1996
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/13/1995
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Evaluation date: 12/07/1995
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/05/1995
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/08/1995
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/24/1995
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/17/1994
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/01/1994
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/25/1992
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/10/1991
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: TSD - Financial Requirements
Date achieved compliance: 09/24/1991
Evaluation lead agency: State

Evaluation date: 09/03/1991
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 09/24/1991
Evaluation lead agency: State

Evaluation date: 08/02/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Date achieved compliance: 09/24/1991
Evaluation lead agency: State

Evaluation date: 08/30/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/30/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/04/1992
Evaluation lead agency: State

Evaluation date: 05/30/1990
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/13/1989
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/25/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/04/1992
Evaluation lead agency: State

Evaluation date: 09/18/1989
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/08/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 09/24/1991
Evaluation lead agency: State

Evaluation date: 08/04/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/04/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 09/27/1988
Evaluation lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

CERC-NFRAP:

Site ID: 0502436
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Program Priority:

Description: Great Lakes

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
Date Started: / /
Date Completed: 08/01/80
Priority Level: Not reported

Action: HAZARD RANKING SYSTEM PACKAGE
Date Started: / /
Date Completed: 12/01/83
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 12/01/83
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: / /
Date Completed: 12/01/83
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 01/01/83
Priority Level: Low priority for further assessment

CORRACTS:

EPA ID: MID020087128
EPA Region: 05
Area Name: AIR STRIPPING I.M.
Actual Date: 20020401
Action: CA550RC
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20080801
Action: CA546
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19980101
Action: CA110 - RFI Workplan Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20040301
Action: CA300 - CMS Workplan Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19990602
Action: CA550RC
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20060803
Action: CA536
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19970103
Action: CA170 - RFI Supplemental Information Deemed Satisfactory
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19970103
Action: CA608

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 20021003
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 20020724
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20021003
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 20020724
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 20021003
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 20020724
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: D.N.A.P.L. RECOVERY I.M.
Actual Date: 20021003
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 20020724
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 20021003
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 20020724
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Area Name: AIR STRIPPING I.M.
Actual Date: 20021003
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 20020724
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19960404
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19960404
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19970204
Action: CA077
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19980604
Action: CA606FI
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 20000504
Action: CA600GW - Stabilization Measures Implemented, Groundwater extraction
and treatment
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19960904
Action: CA606FI
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20040405
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 19990106
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19990106
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19990106
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19990106
Action: CA195 - FI Progress Reports Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19961006
Action: CA600T - Stabilization Measures Implemented, Other activity
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19961006
Action: CA600T - Stabilization Measures Implemented, Other activity
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19961006
Action: CA609
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: AIR STRIPPING I.M.
Actual Date: 19971006
Action: CA999NF - Corrective Action Process Terminated, No Further Action
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19960607
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Area Name: ENTIRE FACILITY
Actual Date: 19960907
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19960907
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19960907
Action: CA190 - RFI Report Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20010208
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19980108
Action: CA250 - CMS Imposition
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19980108
Action: CA260 - CMS Workplan Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19961008
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19961008
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19961008
Action: CA600GW - Stabilization Measures Implemented, Groundwater extraction and treatment
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19961008
Action: CA607
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19970410
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19970410
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19970410
Action: CA190 - RFI Report Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20050210
Action: CA076
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19960710
Action: CA077
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19960710
Action: CA077
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 19980710
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Actual Date: 19980710
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19980710
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20001110
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19961010
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 20010910
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: D.N.A.P.L. RECOVERY I.M.
Actual Date: 20010910
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 20010910
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20010910
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: AIR STRIPPING I.M.
Actual Date: 20010910
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 20010910
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 19971212
Action: CA450 - Corrective Measures Design Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20010112
Action: CA200 - RFI Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Original schedule date: 20001201
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19980413
Action: CA190 - RFI Report Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19980413
Action: CA190 - RFI Report Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19980413
Action: CA190 - RFI Report Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19940813
Action: CA110 - RFI Workplan Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19940813
Action: CA110 - RFI Workplan Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20030513

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Action: CA550RC
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20000714
Action: CA196
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19961014
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19981014
Action: CA607
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20031015
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20060915
Action: CA800YE
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 20060915
Action: CA999NF - Corrective Action Process Terminated, No Further Action
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19961216
Action: CA190 - RFI Report Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19991216
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 19991215
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 19991216
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 19991215
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19991216
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 19991215
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 20060117
Action: CA550RC
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Schedule end date: Not reported

EPA ID: MID020087128

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 19900517

Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary

NAICS Code(s): 325211

Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: MID020087128

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 19900517

Action: CA050 - RFA Completed

NAICS Code(s): 325211

Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: MID020087128

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 19971017

Action: CA999RM - Corrective Action Process Terminated, Remedial Activities Completed

NAICS Code(s): 325211

Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: MID020087128

EPA Region: 05

Area Name: OFF-SITE GROUNDWATER IM

Actual Date: 20050418

Action: CA400 - Date For Remedy Selection (CM Imposed)

NAICS Code(s): 325211

Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: MID020087128

EPA Region: 05

Area Name: OFF-SITE GROUNDWATER IM

Actual Date: 20050418

Action: CA350 - CMS Approved

NAICS Code(s): 325211

Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: MID020087128

EPA Region: 05

Area Name: AIR STRIPPING I.M.

Actual Date: 20050418

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 20050418
Action: CA350 - CMS Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 20050418
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 20050418
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 20050418
Action: CA350 - CMS Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: D.N.A.P.L. RECOVERY I.M.
Actual Date: 20050418
Action: CA350 - CMS Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128

Map ID
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Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

EPA Region: 05
Area Name: D.N.A.P.L. RECOVERY I.M.
Actual Date: 20050418
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20050418
Action: CA350 - CMS Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20050418
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19970519
Action: CA077
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19970519
Action: CA077
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20030120
Action: CA160 - RFI Supplemental Information Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: AIR STRIPPING I.M.
Actual Date: 20060620
Action: CA450 - Corrective Measures Design Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 20060620
Action: CA450 - Corrective Measures Design Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 20060620
Action: CA450 - Corrective Measures Design Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20060620
Action: CA450 - Corrective Measures Design Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: D.N.A.P.L. RECOVERY I.M.
Actual Date: 20060620
Action: CA450 - Corrective Measures Design Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 20060620
Action: CA450 - Corrective Measures Design Approved

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20000320
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 20000320
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 20000320
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 20000320
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: D.N.A.P.L. RECOVERY I.M.
Actual Date: 20050520
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Area Name: COVER I.M.
Actual Date: 20050520
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20050520
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 20050520
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 20050520
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: AIR STRIPPING I.M.
Actual Date: 20050520
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20001120
Action: CA190 - RFI Report Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19960621
Action: CA086
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19960621
Action: CA086
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19970321
Action: CA500 - CMI Workplan Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19980822
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 19980822
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19980822
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Map ID
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Elevation

MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19980822
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 19940622
Action: CA100DC - RFI Imposition, Focused data collection required for stabilization evaluation
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: D.N.A.P.L. RECOVERY I.M.
Actual Date: 19940622
Action: CA100DC - RFI Imposition, Focused data collection required for stabilization evaluation
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19940622
Action: CA100DC - RFI Imposition, Focused data collection required for stabilization evaluation
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19940622
Action: CA100DC - RFI Imposition, Focused data collection required for stabilization evaluation
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19940622
Action: CA100DC - RFI Imposition, Focused data collection required for stabilization evaluation
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19981022
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19981022
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19981022
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19970423
Action: CA076
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20031223
Action: CA270 - CMS Workplan Modification Requested By Agency
NAICS Code(s): 325211

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19990223
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20050323
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20030523
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19960923
Action: CA536
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19980424
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Actual Date: 19980424
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes,
Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19980424
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19980424
Action: CA500 - CMI Workplan Approved
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19980424
Action: CA608
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19980424
Action: CA600GW - Stabilization Measures Implemented, Groundwater extraction
and treatment
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19980424
Action: CA600GW - Stabilization Measures Implemented, Groundwater extraction
and treatment
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19970324
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19970324
Action: CA600EC - Stabilization Measures Implemented, Primary measure is exposure control by barrier and/or institutional control
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 19970324
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 19970324
Action: CA600EC - Stabilization Measures Implemented, Primary measure is exposure control by barrier and/or institutional control
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 19970324
Action: CA606FI
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Area Name: AIR STRIPPING I.M.
Actual Date: 20020524
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 20020524
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20020524
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 20020524
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 20020524
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19990524
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 19990531
Schedule end date: Not reported

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19990524
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 19990531
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19960625
Action: CA170 - RFI Supplemental Information Deemed Satisfactory
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19990726
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 19990731
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19990726
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 19990731
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19990726
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: 19990731
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 19990726
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Original schedule date: 19990731
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19970326
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19970326
Action: CA600SR - Stabilization Measures Implemented, Primary measure is source removal and/or treatment
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: D.N.A.P.L. RECOVERY I.M.
Actual Date: 19970326
Action: CA536
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: D.N.A.P.L. RECOVERY I.M.
Actual Date: 19970326
Action: CA600SR - Stabilization Measures Implemented, Primary measure is source removal and/or treatment
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: D.N.A.P.L. RECOVERY I.M.
Actual Date: 19970326
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 19990127
Action: CA600GW - Stabilization Measures Implemented, Groundwater extraction and treatment
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: COVER I.M.
Actual Date: 20010327
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: AIR STRIPPING I.M.
Actual Date: 20010327
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: OFF-SITE GROUNDWATER IM
Actual Date: 20010327
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 20010327
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19910927
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: MID020087128

EPA Region: 05

Area Name: AIR STRIPPING I.M.

Actual Date: 20011228

Action: CA340 - CMS Report Received

NAICS Code(s): 325211

Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: MID020087128

EPA Region: 05

Area Name: ENTIRE FACILITY

Actual Date: 20011228

Action: CA340 - CMS Report Received

NAICS Code(s): 325211

Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: MID020087128

EPA Region: 05

Area Name: OFF-SITE GROUNDWATER IM

Actual Date: 20011228

Action: CA340 - CMS Report Received

NAICS Code(s): 325211

Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: MID020087128

EPA Region: 05

Area Name: D.N.A.P.L. RECOVERY I.M.

Actual Date: 20011228

Action: CA340 - CMS Report Received

NAICS Code(s): 325211

Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: MID020087128

EPA Region: 05

Area Name: COVER I.M.

Actual Date: 20011228

Action: CA340 - CMS Report Received

NAICS Code(s): 325211

Plastics Material and Resin Manufacturing

Original schedule date: Not reported

Schedule end date: Not reported

EPA ID: MID020087128

EPA Region: 05

Area Name: IM GROUNDWATER CONTAINMENT

Actual Date: 20011228

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Action: CA340 - CMS Report Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: AIR STRIPPING I.M.
Actual Date: 19970328
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19970328
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: AIR STRIPPING I.M.
Actual Date: 19970328
Action: CA536
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19970328
Action: CA600SR - Stabilization Measures Implemented, Primary measure is
source removal and/or treatment
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: AIR STRIPPING I.M.
Actual Date: 19970328
Action: CA600SR - Stabilization Measures Implemented, Primary measure is
source removal and/or treatment
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19980528
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19960829
Action: CA076
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: IM GROUNDWATER CONTAINMENT
Actual Date: 19960829
Action: CA076
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19930630
Action: CA225YE - Stabilization Measures Evaluation, This facility is amenable to stabilization activity based on the, status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 20040330
Action: CA340 - CMS Report Received
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

Actual Date: 19940930
Action: CA140 - RFI Workplan Notice Of Deficiency Issued
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID020087128
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 19930331
Action: CA075HI - CA Prioritization, Facility or area was assigned a high
corrective action priority
NAICS Code(s): 325211
Plastics Material and Resin Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

NY MANIFEST:

EPA ID: MID020087128
Country: USA
Mailing Name: REICHHOLD CHEMICAL INCORPORATED
Mailing Contact: NORMAN R. TAYLOR
Mailing Address: 601 WOODWARD HEIGHTSBLVD
Mailing Address 2: Not reported
Mailing City: FERNDALE
Mailing State: MI
Mailing Zip: 48220
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 313-542-1037

Document ID: NYB3016314
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: V24751TEN
Trans2 State ID: Not reported
Generator Ship Date: 910221
Trans1 Recv Date: 910221
Trans2 Recv Date: Not reported
TSD Site Recv Date: 910306
Part A Recv Date: 910313
Part B Recv Date: 910320
Generator EPA ID: MID020087128
Trans1 EPA ID: OHD986966190
Trans2 EPA ID: Not reported
TSDF ID: NYD048148175
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00100
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 91

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REICHHOLD CHEM INC (Continued)

1000170771

2020 COR ACTION:

EPA ID: MID020087128

Region: 5

Action: Not reported

L50
SSE
1/2-1
0.696 mi.
3676 ft.

FERNDAL PLANT
601 WOODWARD HEIGHTS BLV
FERNDAL, MI 48220

MI SHWS S105213561
MI AIRS N/A
MI BEA
MI RGA HWS

Site 2 of 2 in cluster L

Relative:
Lower

SHWS:

Facility ID: 63000116

Facility Status: Inactive - no actions taken to address contamination

Actual:
645 ft.

Source: Industrial Organic Chemicals

SAM Score: 35

SAM Score Date: 01/26/2004

Township: 01N

Range: 11E

Section: 27

Quarter: NE

Quarter/Quarter: SW

Pollutants: Styrene; TCE; Xylenes

AIRS:

EI Year: 1991

State Registration Number: B1018

Naics Code: Not reported

Contact Name: Not reported

Contact Phone: Not reported

Contact Address: Not reported

Contact City,St,Zip: Not reported

Permit Number: Not reported

Date Received: Not reported

State Registration Number: B1018

Country: Not reported

Application Reason: Not reported

Record Type: Not reported

State County FIPS: Not reported

Facility Category: Not reported

SIC Primary: 2820

Tribal Code: Not reported

Supplemental Location Text: Not reported

Dun & Brad Street Number: Not reported

Business Name: REICHHOLD CHEMICALS INC

Principal Product: SYNTHETIC RESINS

Principal Product Description: CLOSED CHEMICAL PLANT

UTM Zone (Geo Coordinates Universal Transverse Mercator System): Not reported

UTM Horizontal Coord: Not reported

UTM Vertical Coord: Not reported

Mailing Name: JOHN KNAUB

Mailing Contact Person: REICHHOLD CHEMICALS, INC

Mailing Street: PO BOX 13582

Mailing City: RTP

Mailing State: NC

Mailing Zip: 27709

Mailing Zip 4 Extension: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FERNDAL PLANT (Continued)

S105213561

Compliance Person: JOHN KNAUB
Compliance Area Code: 919
Compliance Phone Number: 9907655
Emission Inventory Contact Person: JOHN KNAUB
EI Contact Area Code: 919
EI Contact Phone Number: 9907655
Permit Contact Person: JOHN KNAUB
Permit Contact Person Area Code: 919
Permit Contact Person Phone Number: 9907655
Federal Employer Id Number: 131764826
Of Employees: 10
Reporting Year: 92
Date Record Was Created: Not reported

BEA:

Secondary Address: Not reported
BEA Number: 764
District: Southeast MI
Date Received: 11/17/1998
Submitter Name: WOODWARD HEIGHTS COMMERCE CENTER, LLC
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: Pending
Reviewer: temppm
Division Assigned: Environmental Response Division

RGA HWS:

2012	REICHHOLD CHEMICALS COMPANY	601 WOODWARD HEIGHTS
2011	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
2010	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
2009	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
2008	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
2007	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
2006	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
2005	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
2004	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
2003	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
2002	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
2001	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
2000	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
1999	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
1998	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
1997	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
1996	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
1995	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
1994	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
1993	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS
1991	REICHHOLD CHEMICALS	601 WOODWARD HEIGHTS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

51
SE
1/2-1
0.868 mi.
4585 ft.

C.M.SMILLIE
2660 BURDETTE AVE.
FERNDAL, MI 48220

MI DEL SHWS S108633156
N/A

Relative:
Lower

DELETED HWS:

Facility ID: 63000916

Status: Delisted - no longer meets criteria specified in rules

Actual:
640 ft.

Count: 14 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
OAK PARK	1011862679	MI DEPT/TRANSPORTATION	1 696 UNDER 10 MILE RD	48237	RCRA-CESQG
OAK PARK	1014392231	DAVIS CARTAGE	8 MILE & M 10	48237	RCRA NonGen / NLR
OAKLAND COUNTY	M300004233	MILFORD SAND & GRAVEL CO.	MILFORD-NEW HUDSON		US MINES
OAKLAND TOWNSHIP	S113193140	VI0GOLD3, LLC	212, 216, 222 AND 228 E. HARRI	48067	MI BEA
ROYAL OAK	S109416655	CITY OF ROYAL OAK	117 AND 123 KNOWLES STREET		MI BEA
ROYAL OAK	S114153871		4600 COLLIDGE HWY		MI RGA LUST
ROYAL OAK	S109029721		26461 DEQUINDER		MI SHWS, MI RGA HWS
ROYAL OAK	S114254598		230 E. HARRISON		MI RGA HWS
ROYAL OAK	S114150082		230 EAST HARRISON		MI RGA LUST
ROYAL OAK	S114150080		230 E. HARRISON		MI RGA LUST
ROYAL OAK	S113717251	TIMOTHY PATRICK HOMES PROPERTY	EAST HARRISON AVE. & KNOWLES S	48067	MI BEA
ROYAL OAK	S110300953	WOODWARD GATEWAY LLC	E OF WOODWARD & S OF W KENILWO		MI BEA
ROYAL OAK	U003330262	RAY & SONS AUTO REPAIR INC	1011 S WOODWARD AVE	48067	MI LUST, MI UST, MI RGA LUST
ROYAL OAK	U000262541		3400 N WOODWARD		MI LUST, MI UST, MI RGA LUST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2013

Source: EPA

Date Data Arrived at EDR: 05/09/2013

Telephone: N/A

Date Made Active in Reports: 07/10/2013

Last EDR Contact: 11/11/2013

Number of Days to Update: 62

Next Scheduled EDR Contact: 01/20/2014

Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

EPA Region 6

Telephone 617-918-1143

Telephone: 214-655-6659

EPA Region 3

EPA Region 7

Telephone 215-814-5418

Telephone: 913-551-7247

EPA Region 4

EPA Region 8

Telephone 404-562-8033

Telephone: 303-312-6774

EPA Region 5

EPA Region 9

Telephone 312-886-6686

Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/26/2013

Source: EPA

Date Data Arrived at EDR: 05/09/2013

Telephone: N/A

Date Made Active in Reports: 07/10/2013

Last EDR Contact: 11/11/2013

Number of Days to Update: 62

Next Scheduled EDR Contact: 01/20/2014

Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991

Source: EPA

Date Data Arrived at EDR: 02/02/1994

Telephone: 202-564-4267

Date Made Active in Reports: 03/30/1994

Last EDR Contact: 08/15/2011

Number of Days to Update: 56

Next Scheduled EDR Contact: 11/28/2011

Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/20/2014
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 03/10/2014
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/31/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/08/2013	Telephone: 703-603-8704
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 10/11/2013
Number of Days to Update: 151	Next Scheduled EDR Contact: 01/20/2014
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 03/10/2014
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/17/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2013	Telephone: 703-603-0695
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 12/09/2013
Number of Days to Update: 104	Next Scheduled EDR Contact: 03/24/2014
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/17/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2013	Telephone: 703-603-0695
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 12/09/2013
Number of Days to Update: 104	Next Scheduled EDR Contact: 03/24/2014
	Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/20/2013	Source: Department of the Navy
Date Data Arrived at EDR: 08/23/2013	Telephone: 843-820-7326
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 11/18/2013
Number of Days to Update: 70	Next Scheduled EDR Contact: 03/03/2014
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 10/01/2013	Telephone: 202-267-2180
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 12/30/2013
Number of Days to Update: 66	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Contaminated Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 10/01/2013	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 10/31/2013	Telephone: 517-373-9541
Date Made Active in Reports: 11/20/2013	Last EDR Contact: 10/31/2013
Number of Days to Update: 20	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities Database

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/01/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 10/21/2013
Number of Days to Update: 20

Source: Dept of Environmental Quality
Telephone: 517-335-4035
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/01/2013
Date Data Arrived at EDR: 11/21/2013
Date Made Active in Reports: 11/26/2013
Number of Days to Update: 5

Source: Dept of Environmental Quality
Telephone: 517-373-9837
Last EDR Contact: 11/21/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/06/2013	Source: EPA Region 10
Date Data Arrived at EDR: 11/07/2013	Telephone: 206-553-2857
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 29	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2013	Telephone: 415-972-3372
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 42	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013	Source: EPA Region 1
Date Data Arrived at EDR: 05/01/2013	Telephone: 617-918-1313
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 11/01/2013
Number of Days to Update: 184	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/27/2013	Source: EPA Region 7
Date Data Arrived at EDR: 08/27/2013	Telephone: 913-551-7003
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 66	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Varies

State and tribal registered storage tank lists

UST 2: Underground Storage Tank Listing

A listing of underground storage tank site locations that have unknown owner information.

Date of Government Version: 10/28/2013	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 10/31/2013	Telephone: 517-335-7211
Date Made Active in Reports: 11/20/2013	Last EDR Contact: 10/21/2013
Number of Days to Update: 20	Next Scheduled EDR Contact: 02/03/2014
	Data Release Frequency: Annually

UST: Underground Storage Tank Facility List

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/01/2013	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 09/19/2013	Telephone: 517-335-4035
Date Made Active in Reports: 10/21/2013	Last EDR Contact: 11/21/2013
Number of Days to Update: 32	Next Scheduled EDR Contact: 03/03/2014
	Data Release Frequency: Annually

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/27/2013
Date Data Arrived at EDR: 12/04/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 12

Source: Dept of Environmental Quality
Telephone: 517-373-8168
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: No Update Planned

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations).

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 156

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2014
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 07/29/2013
Date Data Arrived at EDR: 07/30/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 129

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/29/2013
Date Data Arrived at EDR: 08/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 92

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/17/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Engineering and Institutional Controls

A listing of sites with institutional and/or engineering controls in place.

Date of Government Version: 03/26/2013
Date Data Arrived at EDR: 03/29/2013
Date Made Active in Reports: 05/09/2013
Number of Days to Update: 41

Source: Dept of Environmental Quality
Telephone: 517-373-4828
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/17/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields and USTfield Site Database

All state funded Part 201 and 213 sites, as well as LUST sites that have been redeveloped by private entities using the BEA process. Be aware that this is not a list of all of the potential brownfield sites in Michigan.

Date of Government Version: 07/27/2012
Date Data Arrived at EDR: 07/31/2012
Date Made Active in Reports: 09/20/2012
Number of Days to Update: 51

Source: Dept of Environmental Quality
Telephone: 517-373-4805
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

BROWNFIELDS 2: Brownfields Building and Land Site Locations

A listing of brownfield building and land site locations. The listing is a collaborative effort of Michigan Economic Development Corporation, Michigan Economic Developers Association, Detroit Edison, Detroit Area Commercial Board of Realtors

Date of Government Version: 04/09/2007
Date Data Arrived at EDR: 04/10/2007
Date Made Active in Reports: 05/01/2007
Number of Days to Update: 21

Source: Economic Development Corporation
Telephone: 888-522-0103
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/24/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/24/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/1997	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 02/28/2003	Telephone: 517-335-4034
Date Made Active in Reports: 03/06/2003	Last EDR Contact: 02/28/2003
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SWRCY: Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 11/24/2009	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 09/30/2010	Telephone: 517-241-5719
Date Made Active in Reports: 10/28/2010	Last EDR Contact: 12/31/2013
Number of Days to Update: 28	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 11/04/2013
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/17/2014
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/06/2013	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 09/11/2013	Telephone: 202-307-1000
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 12/05/2013
Number of Days to Update: 22	Next Scheduled EDR Contact: 03/17/2014
	Data Release Frequency: Quarterly

DEL SHWS: Delisted List of Contaminated Sites

Sites that have been delisted or deleted from the List of Contaminated Sites. The available documentation for the site does not support its listing or the site no longer meets criteria specified in rules.

Date of Government Version: 08/01/2013	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 08/01/2013	Telephone: 517-373-9541
Date Made Active in Reports: 09/11/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations.

Date of Government Version: 10/20/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 11/21/2008
Number of Days to Update: 3

Source: Department of Community Health
Telephone: 517-373-3740
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 04/25/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/13/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

LIENS: Lien List

An Environmental Lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC * 9607(1) and similar state or local laws. In other words: a lien placed upon a property's title due to an environmental condition

Date of Government Version: 08/19/2013
Date Data Arrived at EDR: 10/23/2013
Date Made Active in Reports: 11/20/2013
Number of Days to Update: 28

Source: Dept of Environmental Quality
Telephone: 517-241-7603
Last EDR Contact: 10/22/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 76

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PEAS: Pollution Emergency Alerting System

Environmental pollution emergencies reported to the Department of Environmental Quality such as tanker accidents, pipeline breaks, and release of reportable quantities of hazardous substances.

Date of Government Version: 09/25/2013	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 09/27/2013	Telephone: 517-373-8427
Date Made Active in Reports: 10/22/2013	Last EDR Contact: 12/09/2013
Number of Days to Update: 25	Next Scheduled EDR Contact: 03/24/2014
	Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/10/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/02/2013	Telephone: 312-886-6186
Date Made Active in Reports: 12/16/2013	Last EDR Contact: 01/02/2014
Number of Days to Update: 75	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 11/06/2013
Number of Days to Update: 42	Next Scheduled EDR Contact: 02/17/2014
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/18/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/27/2014
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 02/26/2013	Telephone: 202-528-4285
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 12/13/2013
Number of Days to Update: 15	Next Scheduled EDR Contact: 03/24/2014
	Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2013	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 08/07/2013	Telephone: Varies
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 12/26/2013
Number of Days to Update: 57	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/26/2013
Date Data Arrived at EDR: 06/11/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 143

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/12/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/26/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 09/05/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/06/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/27/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/21/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 11/21/2014
Number of Days to Update: 25	Next Scheduled EDR Contact: 03/10/2014
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 10/28/2013
Number of Days to Update: 77	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/10/2011	Telephone: 202-564-5088
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 10/09/2014
Number of Days to Update: 61	Next Scheduled EDR Contact: 01/27/2014
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013	Source: EPA
Date Data Arrived at EDR: 07/17/2013	Telephone: 202-566-0500
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 10/18/2013
Number of Days to Update: 107	Next Scheduled EDR Contact: 01/27/2014
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 08/02/2013	Telephone: 301-415-7169
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 12/09/2013
Number of Days to Update: 91	Next Scheduled EDR Contact: 03/24/2014
	Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 09/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2013	Telephone: 202-343-9775
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 10/09/2013
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/20/2014
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 03/08/2013	Source: EPA
Date Data Arrived at EDR: 03/21/2013	Telephone: (312) 353-2000
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 12/10/2013
Number of Days to Update: 111	Next Scheduled EDR Contact: 03/24/2014
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g. the fire department) should an accident occur.

Date of Government Version: 05/08/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/25/2012	Telephone: 202-564-8600
Date Made Active in Reports: 07/10/2012	Last EDR Contact: 10/28/2013
Number of Days to Update: 46	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011	Source: EPA/NTIS
Date Data Arrived at EDR: 02/26/2013	Telephone: 800-424-9346
Date Made Active in Reports: 04/19/2013	Last EDR Contact: 11/25/2013
Number of Days to Update: 52	Next Scheduled EDR Contact: 03/10/2014
	Data Release Frequency: Biennially

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 11/18/2013	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 11/19/2013	Telephone: 517-241-1515
Date Made Active in Reports: 11/26/2013	Last EDR Contact: 11/15/2013
Number of Days to Update: 7	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

Date of Government Version: 10/29/2013	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 10/31/2013	Telephone: 517-335-4586
Date Made Active in Reports: 11/20/2013	Last EDR Contact: 10/21/2013
Number of Days to Update: 20	Next Scheduled EDR Contact: 02/03/2014
	Data Release Frequency: Annually

NPDES: List of Active NPDES Permits

General information regarding NPDES (National Pollutant Discharge Elimination System) permits and NPDES Storm Water permits.

Date of Government Version: 10/08/2013	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 10/08/2013	Telephone: 517-241-1300
Date Made Active in Reports: 10/21/2013	Last EDR Contact: 01/07/2014
Number of Days to Update: 13	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/27/2013
Date Made Active in Reports: 10/23/2013
Number of Days to Update: 26

Source: Dept of Environmental Quality
Telephone: 517-373-7074
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Varies

BEA: BASELINE ENVIRONMENTAL ASSESSMENT DATABASE

A Baseline Environmental Assessment (BEA) allows people to purchase or begin operating at a facility without being held liable for existing contamination. BEAs are used to gather enough information about the property being transferred so that existing contamination can be distinguished from any new releases that might occur after the new owner or operator takes over the property.

Date of Government Version: 08/21/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 09/12/2013
Number of Days to Update: 20

Source: Dept of Environmental Quality
Telephone: 517-373-9541
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Semi-Annually

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 72

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administered lands of the United States. Lands included are administered by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: N/A

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 06/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/13/2013	Telephone: 617-520-3000
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 11/15/2013
Number of Days to Update: 31	Next Scheduled EDR Contact: 02/24/2014
	Data Release Frequency: Quarterly

COAL ASH: Coal Ash Disposal Sites

Coal fired power plants in Southeast Michigan that have coal ash handling on site.

Date of Government Version: 07/12/2013	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 07/12/2013	Telephone: 586-753-3754
Date Made Active in Reports: 08/01/2013	Last EDR Contact: 01/03/2014
Number of Days to Update: 20	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 12/10/2013
Number of Days to Update: 76	Next Scheduled EDR Contact: 03/24/2014
	Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 10/28/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/29/2013	Telephone: 202-566-1917
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 11/18/2013
Number of Days to Update: 38	Next Scheduled EDR Contact: 03/03/2014
	Data Release Frequency: Quarterly

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/14/2013	Telephone: 703-603-8787
Date Made Active in Reports: 02/27/2013	Last EDR Contact: 01/03/2014
Number of Days to Update: 13	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/05/2011	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 01/07/2011	Telephone: 517-335-4034
Date Made Active in Reports: 02/14/2011	Last EDR Contact: 12/26/2013
Number of Days to Update: 38	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Varies

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2012	Telephone: 703-308-4044
Date Made Active in Reports: 05/25/2012	Last EDR Contact: 11/15/2013
Number of Days to Update: 7	Next Scheduled EDR Contact: 02/24/2014
	Data Release Frequency: Varies

WDS: Waste Data System

The Waste Data System (WDS) tracks activities at facilities regulated by the Solid Waste, Scrap Tire, Hazardous Waste, and Liquid Industrial Waste programs.

Date of Government Version: 11/28/2013	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 12/05/2013	Telephone: 517-373-9875
Date Made Active in Reports: 01/02/2014	Last EDR Contact: 11/25/2013
Number of Days to Update: 28	Next Scheduled EDR Contact: 03/10/2014
	Data Release Frequency: Quarterly

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/03/2011	Telephone: N/A
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 12/13/2013
Number of Days to Update: 77	Next Scheduled EDR Contact: 03/24/2014
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 11/01/2013
Number of Days to Update: 83	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Annually

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 01/08/2013
Date Data Arrived at EDR: 01/10/2013
Date Made Active in Reports: 02/28/2013
Number of Days to Update: 49

Source: Dept of Environmental Quality
Telephone: 517-335-6610
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A	Source: N/A
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A	Source: N/A
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A	Source: EDR
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A	Source: EDR
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/22/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 11/01/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 11/18/2013
Number of Days to Update: 11

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/07/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/24/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/21/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 08/05/2013
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/25/2013
Next Scheduled EDR Contact: 03/10/2014
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 08/09/2013
Date Made Active in Reports: 09/27/2013
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/11/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp.
Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Centers, Group & Family Homes

Source: Bureau of REgulatory Services

Telephone: 517-373-8300

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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WRITTEN REQUESTS FOR FILE REVIEWS
AND WRITTEN RESPONSES



Lansing
3340 Ranger Road
Lansing, MI 48906
f: 877-884-6775
t: 517-321-3331

Detroit
4080 W. 11 Mile Rd
Berkley, MI 48072
f: 877-884-6775
t: 248-336-9988

Grand Rapids
820 Monroe Avenue, NW
Suite 433
Grand Rapids, MI 49503
f: 877-884-6775
t: 616-285-8857

ISO 9001 REGISTERED

VIA EMAIL: DEQFOIA@michigan.gov

Requested By: Nelson@pmenv.com

Reviewed By: Kozlowski@pmenv.com

January 8, 2014

Susan Vorce, FOIA Coordinator
Office of Environmental Assistance
Department of Environmental Quality

FOIA Coordinator:

Please accept this Freedom of Information Act request for file information for the following site(s) located in **Oakland County**:

RRD Records Maintained in the SEMI District Office Only:

- A & M Properties, 303 Harrison Ave, Royal Oak (LUST FID: 50002179)
- A & M Properties, 303 Harrison Ave, Royal Oak (BEA:460)
- I E & E, 1300 Batavia Ave, Royal Oak (BEA: 1551)
- Metropolitan Lofts, LLC, 322 East Harrison, Royal Oak (BEA: 2416)

OWMRP Records Maintained in the SEMI District Office Only:

- Bell Plastics, 1220 Morse Ave, Royal Oak (EPA ID: MID151364205) **SP**

I would like to review the files at the SEMI District office before copies are made.
Please contact me at 248-414-1423 if you have any questions or concerns. Thank you.

Sincerely,
PM Environmental, Inc.

Alex J. Kozlowski

Alex Kozlowski
Assistant Research Manager
4080 West Eleven Mile Rd
Berkley, MI 48072
PME Project Number: 02-5771-5 BH (1/21/14)

Appendix E



PM PROFESSIONAL RESUMES



1-800-313-2966
www.pmenv.com
thomas@pmenv.com

Education

- Cornell University
B.A. Science of Earth Systems and
Chemistry

Certifications

- OSHA 29 CFR 1910.120 40-hour
HAZWOPER

KELLY THOMAS

STAFF CONSULTANT

Areas of expertise

- Staff researcher for Phase I Environmental Site Assessments (ESAs).
- Data collection, site investigation, and preparation of Phase I ESAs.
- Collection and evaluation of data for Transaction Screens, Phase I Reports, and preparation of reports.
- Experience in implementation and completion of various site assessment standards and profession protocol and commercial lending requirements (ASTM E-1527).



1-800-313-2966
www.pmenv.com
hengst@pmenv.com

Education

- Grand Valley State University B.S. Natural Resource Management

Certifications

- OSHA 29 CFR 1910.120 (c)(3) 40-hour HAZWOPER Course

BRYANT HENGST

STAFF CONSULTANT

Areas of expertise

- Staff Researcher for Phase I Environmental Site Assessments.
- Data collection, site investigation, and preparation of Phase I Environmental Site Assessments.
- Project investigator and engineer for Phase I and Phase II Environmental Site Assessments.
- Collection and evaluation of data for Transaction Screens, Phase I ESAs, and preparation of reports.
- Experience in implementation and completion of various site assessment standards and professional protocol and commercial lending requirements. (ASTM E-1527)
- Data collection and evaluation for Phase II Environmental Site Assessment Reports.
- Data management and report preparation for quarterly groundwater monitoring.
- Field Technician for the drilling of soil borings, installation of monitoring wells, collection of soil and water samples, excavation oversight, and surveying.
- Two years experience completing Phase I ESA site visits, which includes documentation of building materials and a discussion of suspect ACBM with licensed asbestos inspectors.



1-877-313-2991
www.pmenv.com
shadley@pmenv.com

Education

- Central Michigan University B.S. Geography and Environmental Science

Certifications

- Certified Asbestos Building Inspector State of Michigan Accreditation #A29309
- Certified Asbestos Management Planner State of Michigan Accreditation #A29309
- Certified Asbestos Project Designer State of Michigan Accreditation #A29309
- Certified Asbestos Hazard Evaluation Specialist State of Ohio #ES349636
- Certified Storm Water Management Operator State of Michigan CC-10849
- Section 106 of the Historic Preservation Act
- Radon Measurement Specialist, The National Radon Safety Board #13SS049
- Meets the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312

Professional Activities

- ICSC Next Generation Committee

SHAWN SHADLEY

REGIONAL DIRECTOR AND SENIOR CONSULTANT

Mr. Shadley is a Regional Manager and Senior Consultant at PM Environmental, Inc. and has served clients in the Midwest and Southeast United States since 2001. He specializes in U.S. Department of Housing and Urban Development (HUD) Chapter 9 projects and Michigan State Housing Development Authority (MSHDA) Environmental review requirements. His recent focus includes providing developers, attorneys, and lenders with environmental due diligence services such as Phase I & II ESAs, BEAs Due Care Plans, NEPA compliance assessments, asbestos-containing material and lead based paint surveys.

Areas of expertise

- Data collection, site investigation, and preparation of Phase I Environmental Site Assessment (ESA) projects.
- Data collection, site investigation, and preparation of Transaction Screen projects.
- Experience in implementation and completion of various site assessment standards and professional protocol and commercial lending requirements (ASTM E-1527, ASTM E-1528).
- Project Investigator and preparer for Phase II ESAs.
- Project Investigator and preparer for Baseline Environmental Assessments and Due Care Plans in accordance with the Natural Resources and Environmental Protection Act, P.A. 451 of 1994, Parts 201 and 213.
- Bulk asbestos containing materials samples.
- Asbestos Operations and Maintenance Plans.
- Demolition inspections for commercial and residential properties.
- Completion of NEPA Assessments in accordance with Federal Regulations 24 CFR Part 50 and 24 CFR Part 58.



1-800-435-0090
www.pmenv.com
price@pmenv.com

Education

- Ferris State University
B.S. Industrial and Environmental Health
Minor in Biology

Certifications

- Certified Hazardous Materials Manager (CHMM) No. 15069
- OSHA 1910.120 Hazardous Waste Training
- American Red Cross Standard First Aid and Adult CPR
- Certified Asbestos Building Inspector Accreditation No. A11991
- Meets the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312

Professional Activities

- Michigan Bankers Association, Member of the Environmental Affairs Committee.
- Michigan Association of Environmental Professionals
- Environmental Bankers Association

STEVEN E. PRICE, CHMM

PRINCIPAL, VICE PRESIDENT, AND SENIOR TECHNICAL MANAGER

Mr. Price is a Principal and Vice President at PM Environmental, Inc. and has served clients in over 9 states since 1987. He specializes in transactional due diligence and risk management, with a focus on lending institutions and risk management, bank environmental risk policy development, implementation and training, SBA transactions, Phase II Environmental Site Assessments (ESAs), Baseline Environmental Assessments (BEAs), and Due Care Plans. Mr. Price has been involved in thousands of transactions, including typical Environmental Due Diligence for purchase and refinance transactions, and participations and foreclosures. His recent focus includes serving financial clients based in the Midwest with investment interests across the country.

Areas of expertise

- Extensive experience in real estate portfolio analysis for evaluation of environmental risk associated with single and multi property transactions for the lending industry.
- Extensive experience in the management of environmental due diligence associated with foreclosed properties.
- Wrote and implemented Environmental Policies for several local, community, and regional banks with a combined asset total of over \$80 billion.
- Involved in the collateral and exposure analysis for over 10,000 real estate transactions; including single and multi commercial, industrial, and multi state properties.
- Lead environmental risk manager for several single and multi state, multi property participation/syndication transactions; including acting as agent for banks and coordination with participating bank environmental risk managers.
- Experience in extensive bank branch real estate portfolio, including environmental risk analysis/reduction relating to asbestos containing materials, lead based paint, mold, and environmental due diligence during acquisition and divestment of branch locations.
- Peer/Senior Technical Review for Baseline Environmental Assessment (BEA) Projects.
- Extensive experience in development and implementation of Due Care Plans in accordance with P.A. 451, Part 20107a.
- Environmental Assessments in accordance with the Natural Resources and Environmental Protection Act, P.A. 451 of 1994, Parts 201 and 213.
- Peer/Senior Technical review of thousands of Phase I and Phase II Environmental Site Assessment projects.
- Expertise in Compliance with the Natural Resources and Environmental Protection Act, P.A. 451 of 1994, Parts 201, 211, and 213.
- Experienced with Local, State, and Federal Regulatory Acts.

Appendix F

COMMON ACRONYMS AND TERMINOLOGY USED IN THE COURSE OF THIS PHASE I ESA

The following is a list of common acronyms:

All Appropriate Inquiry	AAI
Asbestos Containing Materials	ACM
Aboveground Storage Tank	AST
American Society for Testing Materials	ASTM
Approximate Minimum Search Distance	ASMD
Comprehensive Environmental Response, Compensation and Liability Act	CERCLA
Environmental Data Resources	EDR
Environmental Site Assessment	ESA
Federal Emergency Response Notification System	ERNS
Large Quantity Generator	LQG
Leaking Underground Storage Tank	LUST
National Priority List	NPL
No Further Remedial Action Planned	NFRAP
PM Environmental, Inc.	PME
Polychlorinated Biphenyls	PCBs
Resource Conservation and Recovery Act	RCRA
Small Quantity Generator	SQG
Treatment Storage and Disposal Facility	TSD
Underground Storage Tank	UST
United States Environmental Protection Agency	USEPA

TERMINOLOGY

The following provides definitions and descriptions of certain terms that may be used in this report. Several terms are defined by ASTM Standard Practice E 1527. The Standard Practice should be referenced for further detail (such as the precise wording), related definitions, or additional explanation regarding the meaning of terms.

Asbestos containing material (ACM): Any material found to contain greater than 1% asbestos using an analytical method that is approved by the USEPA for asbestos analysis.

De minimis conditions: Conditions that generally do not present a material risk or harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Friable material: Defined in the National Emission Standards for Hazardous Air Pollutants (NESHAP) as a material that can be pulverized or reduced to dust using hand pressure only.

General risk of enforcement action: The likelihood that an environmental condition would be subject to enforcement action if brought to the attention of appropriate

governmental agencies. If the circumstances suggest an enforcement action would be more likely than not, then the condition is considered a general risk of enforcement action.

Historical recognized environmental condition (HREC): Environmental condition which in the past would have been considered a recognized environmental condition, but which may or may not be considered a recognized environmental condition currently. The final decision rests with the environmental professional and will be influenced by the current impact of the historical recognized environmental condition on the subject property. If a past release of any hazardous substances or petroleum products has occurred in connection with the subject property, with such remediation accepted by the responsible regulatory agency (for example, as evidenced by the issuance of a no further action letter or equivalent), this condition shall be considered a historical recognized environmental condition.

Non-friable material: Defined by National Emission Standards for Hazardous Air Pollutants (NESHAP) as a material that cannot be pulverized or reduced to dust using hand pressure only. According to NESHAP, non-friable building materials include those in Category I (packings, gaskets, resilient floor coverings/adhesives, and asphalt roofing materials) and those in Category II (all other materials).

Recognized environmental condition (REC): The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the subject property or into the ground, ground water, or surface water of the subject property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Subject property: The area that is the focus of a Phase I Environmental Site Assessment. The boundaries are not necessarily consistent with recorded legal descriptions of real estate, and are defined by the User.

Suspect ACM of concern: Defined as "(I) all friable suspect ACMs (II) any non-friable suspect ACMs expected to be disturbed by renovation or demolition activities planned for the subject property."

General Scope of Services for Phase I ESA

The purpose of the Phase I ESA is to gather sufficient information to develop an independent professional opinion about the environmental condition of the subject property. The ESA will be conducted in an attempt to satisfy the ASTM Standard (E-1527-13) and the U.S. EPA Standards and Practices for All Appropriate Inquiry as defined in the Small Business Liability Relief and Brownfields Revitalization Act. The Phase I ESA will encompass the following scope of work:

Records Review

- Federal and State database search for sites within the ASTM approximate minimum search distances.
- Review of one or more additional state environmental record sources (e.g., fire department, health department, published local or state site contamination lists, etc.). PM is typically exhaustive in inquiry with these resources.
- Utilization of as many of the ASTM standard historical sources as necessary and as reasonably ascertainable and likely to be useful to document all obvious uses of the subject property from the present, back to the subject property's first developed usage (agricultural or the placement of fill) or 1940, whichever is earlier (e.g., aerial photographs, fire insurance maps, topographic maps, street directories, building record and other sources including knowledgeable interviewees). PM is typically exhaustive in usage of these resources to document subject property historical usages. **Chain of title is not typically consulted by PM unless all other standard and historical sources cannot adequately document subject property usages or if required by a lender. A separate fee to the lump sum quoted will be assessed for obtainment of chain of title.**
- A records review in accordance with the requirements for a Vapor Intrusion Assessment per ASTM E-2600-08 is not included in this scope of work.

Site Reconnaissance

- The objective of the site reconnaissance is to obtain information regarding the likelihood of recognized environmental conditions in connection with the subject property.
- The exterior of the subject property and any structures, as well as, pathways, roads, etc., will be visually and physically observed.
- The interior of the structures on the subject property will be visually and physically observed. This includes all common areas, maintenance and repair rooms, boiler rooms and representative number of occupant spaces. Observations under floors, above ceilings or behind walls are not required unless specified by requirements other than the ASTM standard.
- PM will evaluate non-ASTM scope issues with a visual inspection, and comment on asbestos containing building materials, lead based paint, and water intrusion associated with mold. Sampling is not included within this scope of work, but can be completed under a separate proposal.
- Current and past uses of the subject property and adjoining properties, and general uses of surrounding properties, to the extent visually and physically observed will be recorded. Emphasis is placed on subject property or adjoining property usages involving use, treatment, storage, disposal or generation of hazardous substances or petroleum products. These observations may include process details on raw material and waste management practices.
- General description of structures and improvements on the subject property (number and age of buildings, ancillary structures, utilities, storage tanks, hazardous substance and petroleum product usage, general chemical or raw material usage, heating and cooling, stains, solid waste, waste water, etc.).

Interviews with Owners and Occupants

- Interviews with owners, occupants, key site manager and user (person on behalf Phase I ESA conducted), typically with regard to information about current and historical uses, general site setting information, site specific documents, litigation, administrative orders, notices of violations with regard to environmental issues, etc.

Interviews with Local Government Officials

- A reasonable attempt will be made to interview at least one staff member of any of the following: the local fire department, the local agency or state agency having jurisdiction over environmental matters in the area in which the subject property is located, and/or the local health department. PM is typically exhaustive in its inquiry of these sources, unless professional experience has indicated the resource is not beneficial.

Evaluation and Report Preparation

- The report of the Phase I ESA findings will generally follow the ASTM format unless otherwise requested by the client or as outlined in any applicable lender requirements. The report will include documentation of sources, methodology, limitations, and credentials. *Liability/risk evaluations, recommendations for Phase II ESA testing and remediation techniques are not provided within the scope of an ASTM performed assessment.* Phase I ESA reports are kept in the strictest client confidence and are issued directly to the client. Issuance or reliance on the Phase I ESA report for purposes of making loan decisions by a private lender may be included in the Phase I ESA report if specified by the client.

USER'S CONTINUING OBLIGATIONS UNDER CERCLA

Conducting a Phase I ESA alone does not provide a landowner with protection against CERCLA liability. Landowners who want to maintain a bona Fide Prospective Purchaser, an Innocent Landowner, or a Contiguous Property Owner Defense must also comply with other pre-acquisition and post-acquisition requirements in the CERCLA regulations and AAI standards. The responsibilities for each defense are summarized below.

Bona Fide Prospective Purchaser Responsibilities

The Bona Fide Prospective Purchaser defense is intended for individuals or entities purchasing a property known to be contaminated. To obtain and maintain the defense, the individual or entity seeking the defense must also satisfy the following requirements (AAI, Section II D.1.):

- Have acquired a property after all disposal activities involving hazardous substances ceased at the property;
- Provide all legally required notices with respect to the discovery or release of any hazardous substances at the property;
- Exercise appropriate care by taking reasonable steps to stop continuing releases, prevent any threatened future releases, and prevent or limit human, environmental, or natural resources exposure to any previously released hazardous substance;
- Provide full cooperation, assistance, and access to persons authorized to conduct response actions or natural resource restorations;
- Comply with land use restrictions established or relied on in connection with a response action;
- Not impede the effectiveness or integrity of any institutional controls;
- Comply with any CERCLA request for information or administrative subpoena; and
- Not be potentially liable, or affiliated with any other person who is potentially liable for response costs for addressing releases at the property.

Innocent Landowner Responsibilities

The Innocent Landowner Defense protects individuals or entities (ultimately the "property owner") purchasing a property that is not known to be contaminated. The property owner must also satisfy the following requirements to obtain and maintain the defense (AAI, Section II D.3 and CERCLA Section 107(b)(3)):

- Have no reason to know that any hazardous substance which is the subject of a release of threatened release was disposed of on, in, or at the facility;
- Provide full cooperation, assistance and access to persons authorized to conduct response actions at the property;
- Comply with any land use restrictions and not impeding the effectiveness or integrity of any institutional controls;

- Take reasonable steps to stop continuing releases, prevent any threatened release, and prevent or limit human, environmental, or natural resource exposure to any hazardous substances released on or from the landowner's property;
- Demonstrate that the act or omission that caused the release or threat of release of hazardous substances and the resulting damages were caused by the third party with whom the person does not have employment, agency, or contractual relationship;
- Exercise due care with respect to the hazardous substance concerned, taking into consideration the characteristics of such hazardous substance, in light of all relevant facts and circumstances;
- Take precautions against foreseeable acts or omissions of a third party and the consequences that could result from such acts or omissions.

Contiguous Property Owner Defense

The Contiguous Property Owner Defense protects individuals or entities purchasing a property that is not known to be contaminated, but could be contaminated by migration from a contiguous property owned by someone else. To qualify as a contiguous property owner, a landowner must have no knowledge of contamination prior to acquisition, or reason to know of contamination at the time of acquisition, have conducted AAI, and meet all of the criteria set forth in AAI Section II.D.2 and CERCLA Section 107(q)(1)(A), which include:

- Not cause, contribute, or consent to the release or threatened release;
- Not be potentially liable nor affiliated with any other person potentially liable for response costs at the property;
- Take reasonable steps to stop continuing releases, prevent any threatened release, and prevent or limit human, environmental, or natural resource exposure to any hazardous substances released on or from the landowner's property;
- Provide full cooperation, assistance, and access to persons authorized to conduct response actions or natural resource restorations;
- Comply with land use restrictions established or relied on in connection with a response action;
- Not impede the effectiveness or integrity of any institutional controls;
- Comply with any CERCLA request for information or administrative subpoena;
- Provide all legally required notices with respect to discovery or release of any hazardous substances at the property.

Persons who know, or have reason to know, that the property is or could be contaminated at the time of acquisition of a property cannot qualify for the liability protection as a contiguous property owner, but may be entitled to Bona Fide Prospective Purchaser status.